

WISCONSIN STATE TELEPHONE ASSOCIATION
INTRASTATE ACCESS CHARGE TARIFF

INTRASTATE ACCESS TARIFF NO. 1
Original Title Page 1
Cancels Access Tariff No. 1 in its entirety
Amendment No. 6

ACCESS SERVICE

TITLE PAGE

Regulations, Rates and Charges
applying to the provision of Access Services
within a Local Access and Transport Area (LATA)
for connection to intrastate communications
facilities for Intrastate Customers within the
operating territories of the Issuing Carriers
listed on Title Pages 2 through 8.

All material contained herein is new and cancels and supercedes Wisconsin State Telephone Association Access Charge Tariff No. 1 in its entirety.

Access Services are provided by means of wire, fiber optics, radio or any other suitable technology or a combination thereof.

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Madison, Wisconsin 53719

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Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

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ACCESS SERVICE

CHECK SHEET

Title Page 1 and 6 and Pages 1 to Section 17 Page 49 inclusive of this tariff effective as of the date shown. Original and revised pages as named below contain all changes from the original tariff that are in effect on the hereof.

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WISCONSIN STATE TELEPHONE ASSOCIATION
INTRASTATE ACCESS CHARGE TARIFF

INTRASTATE ACCESS TARIFF NO. 1
Original Page 25
Amendment No. 6

ACCESS SERVICE

CONCURRING CARRIERS

NO CONCURRING CARRIERS

CONNECTING CARRIERS

NO CONNECTING CARRIERS

OTHER PARTICIPATING CARRIERS

NO OTHER PARTICIPATING CARRIERS

REGISTERED SERVICE MARKS

NONE

REGISTERED TRADEMARKS

NONE

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EXPLANATION OF SYMBOLS

C	-	to signify changed regulation.
D	-	to signify discontinued rate or regulation.
I	-	to signify increase to a rate or charge.
N	-	to signify new rate or regulation.
R	-	to signify reduction to a rate or charge.
T	-	to signify a change in text but no change in rate or regulation.
X	-	nonconcurrence to or exemption to a particular section, rate or regulation.

EXPLANATION OF ABBREVIATIONS

AML	-	Actual Measured Loss	
ANI	-	Automatic Number Identification	
AP	-	Program Audio	
AT&T	-	American Telephone and Telegraph Company	
BHMC	-	Busy Hour Minutes of Capacity	
CCS	-	Common Channel Signaling	(N)
CDP	-	Customer Designated Premises	
CI	-	Channel Interface	
CNP	-	Charge Number Parameter	(N)
CO	-	Central Office	
Cont'd	-	Continued	
CPE	-	Customer Provided Equipment	
CPN	-	Calling Party Number	(N)
CSP	-	Carrier Selection Parameter	(N)
DA	-	Directory Assistance	
dB	-	Decibel	
dBrnC	-	Decibel Reference Noise C-Message Weighting	
dBrnC0	-	Decibel Reference Noise C-Message Weighted 0	
dc	-	Direct Current	
DDD	-	Direct Distance Dialing	
EAS	-	Extended Area Service	
EDD	-	Envelope Delay Distortion	
EML	-	Expected Measured Loss	
EPL	-	Echo Path Loss	
ERL	-	Echo Return Loss	
ESS	-	Electronic Switching System	
ESSX	-	Electronic Switching System Exchange	
f	-	Frequency	
F.C.C.	-	Federal Communications Commission	

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EXPLANATION OF ABBREVIATIONS

HC	-	High Capacity	
Hz	-	Hertz	
IC	-	Interexchange Carrier	
ICB	-	Individual case Basis Association	
ICL	-	Inserted Connection Loss	
kbps	-	Kilobits per second	
kHz	-	Kilohertz	
LATA	-	Local Access and Transport Area	
ma	-	Milliamperes	
Mbps	-	Megabits per second	
mcs	-	Microsecond	
MHz	-	Megahertz	
MRC	-	Monthly Recurring Charge	
MT	-	Metallic	
MTS	-	Message Telecommunications Service(s)	
NPA	-	Numbering Plan Area	
NRC	-	Nonrecurring Charge	
NXX	-	Three-Digit Central Office Prefix	
PBX	-	Private Branch Exchange	
PEC	-	Primary Exchange Carrier	
POC	-	Point of Connection	
PSCW	-	Public Service Commission of Wisconsin	
SAC	-	Service Access Code	
SEC	-	Secondary Exchange Carrier	
SNAL	-	Signaling Network Access Line	(N)
SP	-	Signaling Point	
SPOI	-	Signaling Point of Interface	(N)
SRL	-	Singing Return Loss	
SSP	-	Service Switching Point	(N)
SS7	-	Signaling System 7	
STP	-	Signal Transfer Point	(N)
SWC	-	Serving Wire Center	
TG	-	Telegraph Grade	
TLP	-	Transmission Level Point	
TV	-	Television	
VG	-	Voice Grade	
V & H	-	Vertical and Horizontal	
WATS	-	Wide Area Telecommunications Service(s)	
WSO	-	WATS Serving Office	

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REFERENCE TO OTHER TARIFFS

Whenever reference is made in this tariff to other tariffs of the Telephone Company, the reference is to the tariffs in force as of the effective date of this tariff, and to amendments thereto and successive issues thereof.

The following tariff is referenced in this tariff and may be obtained from the Wisconsin Public Service Commission:

Wisconsin State Telephone Association Intrastate Access Charge Tariff No. 2

(C)

(C)

(D)

(D)

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REFERENCE TO TECHNICAL PUBLICATIONS

The following technical publications are referenced in this tariff and may be obtained from Bell Communications Research, Inc., Customer Services, 60 New England Avenue, Piscataway, New Jersey 08854-4196.

Technical Reference:

Multiple Exchange Carrier Access Billing (MECAB) Guidelines
Issued: November, 1987

Multiple Exchange Carrier Ordering and Design (MECOD) Guidelines
Issued: November, 1985

PUB 41451 High Capacity Terrestrial Digital Service
Issued: January, 1983

PUB 41004 Data Communications Using Voiceband Private Line Channels
Issued: October, 1973

PUB 62310 Digital Data System Channel Interface Specification
Issued: September, 1983

PUB 62411 High Capacity Digital Service Channel Interface
Specification
Issued: September, 1983

TR-NPL-000334 Voice Grade Switched Access Service
Issued: June, 1986

TR-NPL-000335, Revision 1 Voice Grade Special Access
Issued: February, 1987

TR-NPL-000336 Metallic and Telegraph Grade Special Access Services
Issued: October, 1987

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

Technical Reference:

PUB 62503 Program Audio Special Access Service
Issued: December, 1983

PUB 62503 Addendum Program Audio Special Access Service
Issued: March, 1984

TR-NPL-000338 Television Special Access and Local Channel Services
Issued: December, 1986

PUB 62507 Digital Data Special Access Service
Issued: December, 1983

PUB 62508 High Capacity Digital Special Access Service
Issued: December, 1983

SR-ISD-000307 NC/NCI Code Directory
Issued: March, 1988

The following technical publication is referenced in this tariff and may be obtained from the Bell Communications Technical Education Center, Room 802, Illinois 60532.

Telecommunications Transmission Engineering
Volume 3 - Networks and Services (Chapters 6 & 7)
Second Edition, 1980
Issued: June, 1980

The following technical publication is referenced in this tariff and may be obtained from the National Exchange Carrier Association, Inc., Director - Tariff and Regulatory Matters, 100 South Jefferson Road, Whippany, New Jersey 07981 and the Federal Communications Commission's commercial contractor.

PUB AS No. 1, Issue II Access Service
Issued: May, 1984
Addendum: March, 1987

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Technical Reference:

TR-NPL-000337 Program Audio Special Access Service and Local Channel Services
Issued: July 1987

TR-NPL-000338 Television Special Access and Local Channel Services -
Transmission Parameter Limits and Interface Combinations
Issued: December 1986

TR-NPL-000341 Digital Data Special Access Service - Transmission
Parameter and Interface Combinations
Issued: March 1989

TR-INS-000342 High Capacity Digital Special Access Service
Issued: February 1991

SR-STIS-000307 Issue 2 NC/NCI Code Dictionary
Issued: December 1990

TR-TSY-000506 LATA Switching Systems Generic Requirements (LSSGR)
Section 6
Issued: October 1987, Revised December 1988, Revised June 1990

TR-NPL-000054 High Capacity Digital Service (1.544 Mbs) Interface
Generic Requirements for End Users
Issued: April 1989
Available: April, 1989

TR-TSV-000905 Common Channel Signaling Network Interface
Specification Supplement 1
Available: August 1989

The following publications are referenced in this tariff and may be obtained
from the Government Printing Office, Superintendent of Documents, Document
Control Branch, 941 N. Capital St., N.E., Washington, D.C. 20401.

Telecommunications Service Priority (TSP) System for National
Security Emergency Preparedness (NSEP) Service Vendor Handbook,
National Communications System (NCSH 3-1-2).

Issued July, 1990
Available August, 1990

Telecommunication Service Priority (TSP) System for National Security
Emergency Preparedness (NSEP) Service User Manual, National
Communications System (NCSM 3-1-1).

Issued July, 1990
Available August, 1990

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

The following publication is referenced in this tariff and may be obtained from Director-Sales Operations, Integrated Network Corporation, P.O. Box 6875, Bridgewater, N.J. 08807.

Integrated Network Corporation
Document CB-INC-100
Available: June, 1990

The following publication is referenced in this tariff and may be obtained from AT&T, 26 Parsippany Road, Whippany, N.J. 07981.

AT&T PUB 62310
(and its Addendum 2 and Addendum 3)
Available: October, 1989

(N)

(N)

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ACCESS SERVICE

1. Application of Tariff

- 1.1 This tariff contains regulations, rates and charges applicable to the provision of Carrier Common Line, Switched Access, Special Access, Billing and Collecting and other miscellaneous services, hereinafter referred to collectively as service(s). These services are provided to customers by the Issuing Carriers of this tariff hereinafter the Telephone Company. (C)
| (C)
| (D)
| (D)
- 1.2 The provision of such services by the Telephone Company as set forth in this tariff does not constitute a joint undertaking with the customer for the furnishing of any service.
- 1.3 The Telephone Company need not provide services described in the tariff if it does not have the facilities to provide the service or is otherwise unable to provide the service. If the Telephone Company so determines, it may exempt itself from certain sections of the tariff, by encoding the applicable rates and charges in Section 17 with an (x). However, no existing service may be abandoned by this method.
- 1.4 Nonpremium access rates shall apply only for intralata access which the Commission has so ordered. Premium rates shall apply to all other intra-lata access.

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ACCESS SERVICE

2. General Regulations

2.1 Undertaking of the Telephone Company

2.1.1 Scope

- (A) The Telephone Company does not undertake to transmit messages under this Tariff.
- (B) The Telephone Company shall be responsible only for the installation, operation and maintenance of the services it provides.
- (C) The Telephone Company will, for maintenance purposes, test its service only to the extent necessary to detect and/or clear troubles.
- (D) Services are provided 24 hours daily, seven days per week, except as set forth in other applicable sections of this tariff.
- (E) The Telephone Company does not warrant that its facilities and services meet standards other than those set forth in this tariff.

2.1.2 Limitations

(A) Assignment or Transfer of Services

The customer may assign or transfer the use of services provided under this tariff only where there is no interruption of use or relocation of the services. Such assignment or transfer may be made to:

- (1) another customer, whether an individual, partnership, association or corporation, provided the assignee or transferee assumes all outstanding indebtedness for such services, and the unexpired portion of the minimum period and the termination liability applicable to such services, if any; or

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2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Limitations (Cont'd)

(A) Assignment or Transfer of Services (Cont'd)

- (2) a court-appointed receiver, trustee or other person acting pursuant to law in bankruptcy, receivership, reorganization, insolvency, liquidation or other similar proceedings, provided the assignee or transferee assumes the unexpired portion of the minimum period and the termination liability applicable to such services, if any.

In all cases of assignment or transfer, the written acknowledgment of the Telephone Company is required prior to such assignment or transfer. This acknowledgment shall be made within 15 days from the receipt of notification. All regulations and conditions contained in this tariff shall apply to such assignee or transferee.

The assignment or transfer of services does not relieve or discharge the assignor or transferrer from remaining jointly or severally liable with the assignee or transferee for any obligations existing at the time of the assignment or transfer.

(B) Use and Restoration of Services

The use and restoration of services shall be in accordance with Part 64, Subpart D, Appendix A, of the Federal Communication Commission's Rules and Regulations, which specifies the priority system for such activities.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.2 Limitations (Cont'd)

(C) Sequence of Provisioning

Subject to compliance with the rules mentioned in (B) preceding, the services offered herein will be provided to customers on a first-come, first-served basis.

The first-come, first-served sequence shall be based upon the received time and date recorded, by stamp or other notation, by the Telephone Company on customer access orders. These orders must contain all the information as required for each respective service as delineated in other sections of this tariff. Customer orders shall not be deemed to have been received until such information is provided. Should questions arise which preclude order issuance due to missing information or the need for clarification, the Telephone Company will attempt to seek such missing information or clarification on a verbal basis.

2.1.3 Liability

(A) Limits of Liability

The Telephone Company's liability, if any, for its willful misconduct is not limited by this tariff. With respect to any other claim or suit, by a customer or by any others, for damages associated with the installation, provision, termination, maintenance, repair or restoration of service, and subject to the provisions of (B) through (G) following, the Telephone Company's liability if any, shall not exceed an amount equal to the proportionate charge for the service for the period during which the service was affected. This liability for damages shall be in addition to any amounts that may otherwise be due the customer under this tariff as a Credit Allowance for a Service Interruption.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(B) Acts or Omissions

The Telephone Company shall not be liable for any act or omission of any other carrier or customer providing a portion of a service, nor shall the Telephone Company for its own act or omission hold liable any other carrier or customer providing a portion of a service.

(C) Damages to Customer Premises

The Telephone Company is not liable for damages to the customer premises resulting from the furnishing of a service, including the installation and removal of equipment and associated wiring, unless the damage is caused by the Telephone Company's negligence.

(D) Indemnification of Telephone Company

(1) By the End User

The Telephone Company shall be indemnified, defended and held harmless by the end user against any claim, loss or damage arising from the end user's use of services offered under this tariff, involving:

- (A) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from the end user's own communications;

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(D) Indemnification of Telephone Company (Cont'd)

(1) By the End User (Cont'd)

- (B) Claims for patent infringement arising from the end user's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the end users or customer or;
- (C) All other claims arising out of any act or omission of the end user in the course of using services provided pursuant to this tariff.

(2) By the Customer

The Telephone Company shall be indemnified, defended and held harmless by the customer against any claim, loss or damage arising from the customer's use of services offered under this tariff, involving:

- (A) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from the customer's own communications;
- (B) Claims for patent infringement arising from the customer's acts combining or using the service furnished by the Telephone Company in connection with facilities or equipment furnished by the end user or customer or;
- (C) All other claims arising out of any act or omission of the customer in the course of using services provided pursuant to this tariff.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.3 Liability (Cont'd)

(E) Explosive Atmospheres

The Telephone Company does not guarantee or make any warranty with respect to its services when used in an explosive atmosphere. The Telephone Company shall be indemnified, defended and held harmless by the customer from any and all claims by any person relating to such customer's use of services so provided.

(F) No License Granted

No license under patents (other than the limited license to use) is granted by the Telephone Company or shall be implied or arise by estoppel, with respect to any service offered under this tariff. The Telephone Company will defend the customer against claims of patent infringement arising solely from the use by the customer of services offered under this tariff and will indemnify such customer for any damages awarded based solely on such claims.

(G) Circumstances Beyond the Telephone Company's Control

The Telephone Company's failure to provide or maintain services under this tariff shall be excused by labor difficulties, governmental orders, civil commotions, criminal actions taken against the Telephone Company, acts of God and other circumstances beyond the Telephone Company's reasonable control, subject to the Credit Allowance for a Service Interruption as set forth in 2.4.4 following.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.4 Provision of Services

The Telephone Company will provide to the customer, upon reasonable notice, services offered in other applicable sections of this tariff at rates and charges specified therein. Services will be made available to the extent that such services are or can be made available with reasonable effort, and after provision has been made for the Telephone Company's telephone exchange services.

2.1.5 Facility Terminations

The services provided under this tariff will include any entrance cable or drop wiring and wire or intrabuilding cable to that point where provision is made for termination of the Telephone Company's outside distribution network facilities at a suitable location inside a customer-designated premises. Such wiring or cable will be installed by the Telephone Company to the Point of Termination. Moves of the Point of Termination at the customer designated premises will be as set forth in 6.4.4 and 7.2.3 following.

2.1.6 Service Maintenance

The services provided under this tariff shall be maintained by the Telephone Company. The customer or others may not rearrange, move, disconnect, remove or attempt to repair any facilities provided by the Telephone Company, other than by connection or disconnection to any interface means used, except with the written consent of the Telephone Company.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.7 Changes and Substitutions

Except as provided for equipment and systems subject to F.C.C. Part 68 Regulations at 47 C.F.R. Section 68.110(b), the Telephone Company may, where such action is reasonably required in the operation of its business, substitute, change or rearrange any facilities used in providing service under this tariff. Such actions may include, without limitation:

- substitution of different metallic facilities,
- substitution of carrier or derived facilities for metallic facilities used to provide other than metallic facilities,
- substitution of metallic facilities for carrier or derived facilities used to provide other than metallic facilities,
- change of minimum protection criteria,
- change of operating or maintenance characteristics of facilities, or
- change of operations or procedures of the Telephone Company.

In case of any such substitution, change or rearrangement, the transmission parameters will be within the range as set forth in Section 15. following. The Telephone Company shall not be responsible if any such substitution, change or rearrangement renders any customer furnished services obsolete or requires modification or alteration thereof or otherwise affects their use or performance. If such substitution, change or rearrangement materially affects the operating characteristics of the facility, the Telephone Company will provide reasonable notification to the customer in writing. Reasonable time will be allowed for any redesign and implementation required by the change in operating characteristics. The Telephone Company will work cooperatively with the customer to determine reasonable notification procedures.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service

(A) If a customer fails to comply with 2.1.6 preceding (Service Maintenance) or 2.3.1, 2.3.4, 2.3.6, 2.4.1 or 2.5 following (respectively, Damages, Availability for Testing, Balance, Payment Arrangements, Connections) including any customers failure to make payments on the date and times therein specified, the Telephone Company may, on thirty (30) days written notice to the customer by Certified U.S. Mail, take the following actions:

- refuse additional applications for service and/or refuse to complete any pending orders for service, and/or
- discontinue the provision of service to the customer.

In the case of discontinuance all applicable charges, including termination charges, shall become due.

(B) If a customer fails to comply with 2.2.2 following (Unlawful and Abusive Use), the Telephone Company may, upon written request from a customer, or another exchange carrier, terminate service to any subscriber or customer identified as having utilized service provided under this tariff in the completion of abusive or unlawful telephone calls. Service shall be Terminated by the Telephone Company as provided for in its general and/or local exchange service tariffs.

In such instances when termination occurs the Telephone Company shall be indemnified, defended and held harmless by any customer or Exchange Carrier requesting termination of service against any claim, loss or damage arising from the Telephone Company's actions in terminating such service, unless caused by the Telephone Company's negligence.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service (Cont'd)

- (C) Except as provided for equipment or systems subject to the F.C.C. Part 68 Rules in 47 C.F.R. Section 68.108, if the customer fails to comply with 2.2.1 following (Interference or Impairment), the Telephone Company will, where practicable, notify the customer that temporary discontinuance of the use of a service may be required; however, where prior notice is not practicable, the Telephone Company may temporarily discontinue service forthwith if such action is reasonable in the circumstances. In case of such temporary discontinuance, the customer will be notified promptly and afforded the opportunity to correct the condition which gave rise to the temporary discontinuance. During such period of temporary discontinuance, credit allowance for service interruptions as set forth in 2.4.4 following is not applicable.
- (D) When access service is provided by more than one Telephone Company, the companies involved in providing the joint service may individually or collectively deny service to a customer for nonpayment. Where the Telephone Company(s) affected by the nonpayment is incapable of effecting discontinuance of service without cooperation from the other joint providers of Switched Access Service, such other Telephone Company(s) will, if technically feasible, assist in denying the joint service to the customer. Service denial for such joint service will only include calls originating or terminating within, or transiting, the operating territory of the Telephone Companies initiating the service denial for nonpayment. When more than one of the joint providers must deny service to effectuate termination for nonpayment, in cases where a conflict exists in the applicable tariff provisions, the tariff regulations of the end office Telephone Company shall apply for joint service discontinuance.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.8 Refusal and Discontinuance of Service (Cont'd)

- (E) If the Telephone Company does not refuse additional applications for service and/or does not discontinue the provision of the services as specified for herein, and the customer's noncompliance continues, nothing contained herein shall preclude the Telephone Company's right to refuse additional applications for service and/or to discontinue the provision of the services to the non-complying customer without further notice.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of the Telephone Company (Cont'd)

2.1.9 Notification of Service-Affecting Activities

The Telephone company will provide the customer reasonable notification of service-affecting activities that may occur in the normal operation of its business. Such activities may include, but are not limited to the following:

- equipment or facilities additions,
- removals or rearrangements,
- routine preventative maintenance, and
- major switching machine change-out.

Generally, such activities are not individual customer service specific, but may affect many customer services. No specific advance notification period is applicable to all service activities. The Telephone Company will work cooperatively with the customer to determine reasonable notification requirements.

2.1.10 Coordination with Respect to Network Contingencies

The Telephone Company intends to work cooperatively with the customer to develop network contingency plans in order to maintain maximum network capability following natural or man-made disasters which affect telecommunications services.

2.1.11 Provision and Ownership of Telephone Numbers

The Telephone Company reserves the reasonable right to assign, designate or change telephone numbers, any other call number designations associated with Access Services, or the Telephone Company serving central office prefixes associated with such numbers, when necessary in the conduct of its business. Should it become necessary to make a change in such number(s), the Telephone Company will furnish to the customer six (6) months notice, by Certified U.S. Mail, of the effective date and an explanation of the reason(s) for such change(s).

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.2 Use

2.2.1 Interference or Impairment

The characteristics and methods of operation of any circuits, facilities or equipment provided by other than the Telephone Company and associated with the facilities utilized to provide services under this tariff shall not:

- interfere with or impair service over any facilities of the Telephone Company, its affiliated companies, or its connecting and concurring carriers involved in its services,
- cause damage to their plant,
- impair the privacy of any communications carried over their facilities, or
- create hazards to the employees of any of them or the public.

2.2.2 Unlawful and Abusive Use

- (A) The service provided under this tariff shall not be used for an unlawful purpose or used in an abusive manner.

Abusive use includes:

- (1) The use of the service of the Telephone Company for a call or calls, anonymous or otherwise, in a manner reasonably expected to frighten, abuse, torment, or harass another;
- (2) The use of the service in such a manner as to interfere unreasonably with the use of the service by one or more other customers.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer

2.3.1 Damages

The customer shall reimburse the Telephone Company for damages to Telephone Company facilities utilized to provide services under this tariff caused by the negligence or willful act of the customer or resulting from the customer's improper use of the Telephone Company facilities, or due to malfunction of any facilities or equipment provided by other than the Telephone Company. Nothing in the foregoing provision shall be interpreted to hold one customer liable for another customer's actions. The Telephone Company will, upon reimbursement for damages, cooperate with the customer in prosecuting a claim against the person causing such damage and the customer shall be subrogated to the right of recovery by the Telephone Company for the damages to the extent of such payment.

2.3.2 Ownership of Facilities and Theft

Facilities utilized by the Telephone Company to provide service under the provisions of this tariff shall remain the property of the Telephone Company. Such facilities shall be returned to the Telephone Company by the customer, whenever requested, within a reasonable period. The equipment shall be returned in as good condition as reasonable wear will permit.

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.3 Equipment Space and Power

The customer shall furnish or arrange to have furnished to the Telephone Company, at no charge, equipment space and electrical power required by the Telephone Company to provide services under this tariff at the points of termination of such services. The selection of ac or dc power shall be mutually agreed to by the customer and the Telephone Company. The customer shall also make necessary arrangements in order that the Telephone Company will have access to such spaces at reasonable times for installing, testing, repairing or removing Telephone Company facilities used to provide services.

2.3.4 Availability for Testing

Access to facilities used to provide services under this tariff shall be available to the Telephone Company at times mutually agreed upon in order to permit the Telephone Company to make tests and adjustments appropriate for maintaining the services in satisfactory operating condition. Such tests and adjustments shall be completed within a reasonable time. As set forth in 2.4.4(C)(4) following, no credit will be allowed for any interruptions involved during such tests and adjustments.

2.3.5 Limitation of Use of Metallic Facilities

Signals applied to a metallic facility shall conform to the limitations set forth in Technical Reference Publication AS No. 1. In the case of application of dc telegraph signaling systems, the customer shall be responsible, at its expense, for the provision of current limiting devices to protect the Telephone Company facilities from excessive current due to abnormal conditions and for the provision of noise mitigation networks when required to reduce excessive noise.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.6 Balance

All signals for transmission over the facilities used to provide services under this tariff shall be delivered by the customer balanced to ground except for ground start, duplex (DX) and McCulloch-Loop (Alarm System) type signaling and dc telegraph transmission at speeds of 75 baud or less.

2.3.7 Design of Customer services

Subject to the provisions of 2.1.7 preceding (Changes and Substitutions), the customer shall be solely responsible, at its own expense, for the overall design of its services and for any redesigning or rearrangement of its services which may be required because of changes in facilities, operations or procedures of the Telephone Company, minimum protection criteria or operating or maintenance characteristics of the facilities.

2.3.8 References to the Telephone Company

The customer may advise end users that certain services are provided by the Telephone Company in connection with the service the customer furnishes to end users; however, the customer shall not represent that the Telephone Company jointly participates in the customer's services.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Claims and Demands for Damages

- (A) With respect to claims of patent infringement made by third persons, the customer shall defend, indemnify, protect and save harmless the Telephone Company from and against all claims arising out of the combining with, or use in connection with, the services provided under this tariff, any circuit, apparatus, system or method provided by the customer.
- (B) The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses and damages, including punitive damages, attorney fees and court costs by third persons arising out of the construction, installation, operation, maintenance, or removal of the customer's circuits, facilities, or equipment connected to the Telephone Company's services provided under this tariff including, without limitation, Worker's Compensation claims, actions for infringement of copyright and/or unauthorized use of program material, libel and slander actions based on the content of communications transmitted over the customer's circuits, facilities or equipment, and proceedings to recover taxes, fines, or penalties for failure of the customer to obtain or maintain in effect any necessary certificates, permits, licenses, or other authority to acquire or operate the services provided under this tariff; provided, however, the foregoing indemnification shall not apply to suits, claims, and demands to recover damages for damage to property, death, or personal injury unless such suits, claims or demands are based on the tortuous conduct of the customer, its officers, agents or employees.
- (C) The customer shall defend, indemnify and save harmless the Telephone Company from and against any suits, claims, losses or damages, including punitive damages, attorney fees and court costs by the customer third parties arising out of any act of revision of the customer in the course of using services provided under this tariff.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.10 Coordination with Respect to Network Contingencies

The customer shall, in cooperation with the Telephone Company, coordinate in planning the actions to be taken to maintain maximum network capability following natural or man-made disasters which affect telecommunications services.

2.3.11 Jurisdictional Report and Certification Requirements

(N)

(A) Certification Requirements - Special Access

When the customer orders Special Access Service, and the customer certifies to the Telephone Company in writing that more than ten percent of the traffic is interstate, the service is considered to be interstate and is provided under the Telephone Company interstate access tariff. For those customers who were provided Special Access Service under this tariff prior to May 15, 1990, or who have pending Special Access Service orders as of May 15, 1990, the Telephone Company will by July 15, 1990, request the customer to certify their existing Special Access Service and advise the telephone company in writing of any jurisdictional change. The customer will be requested to reply to the Telephone Company within 90 days. When a Special Access Service is certified to be jurisdictionally changed, the effective date of the change will be the date the Telephone Company receives the customer's certification. There is no charge when the customer's reply results in a jurisdictional change in the Special Access Service.

Following initial certification, should the jurisdictional nature of the customer's Special Access Service Change, the customer should inform the Telephone Company in writing of the change. The effective date of the change will be the date the Telephone Company receives the customer's notice of change. No charge applies for the jurisdictional change.

(N)

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report and Certification Requirements (Cont'd)

(B) Disputes Involving Jurisdictional Certification - Special Access

(N)

If a dispute arises concerning the certification of projected interstate traffic as described in (A) above, the Telephone Company will ask the customer to provide the data the customer used to determine that more than 10% of the traffic is interstate. The customer shall supply the data within thirty (30) days of the Telephone Company request. If the reply results in a jurisdictional change of a Special Access Service, the effective date of the change will be the date the Telephone Company receives the customer's reply. There is no charge when the customer's reply results in a jurisdictional change in the Special Access Service.

(N)

(C) Jurisdictional Reports - Switched Access

(M)

For Switched Access Service, the telephone Company cannot in all cases determine the jurisdictional nature of customer traffic and its related access minutes. In such cases the customer may be called upon to provide a projected estimate of its traffic, split between the interstate and intrastate jurisdictions. The following regulations govern such estimates, their reporting by the customer and cases where the Telephone Company will develop jurisdictional percentages.

(C)

(1) General

Except where Telephone Company measured access minutes are used as set forth following, the customer shall report the percentage of interstate use as set forth in (2), (3), or (4) following and such report will be used for

(M)

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(C) Jurisdictional Reports (Cont'd)

(T)

(1) General (Cont'd)

billing purposes until the customer reports a different projected intrastate percentage for an in-service end office group. When the customer adds BHMC, lines or trunks to an existing end office group, the customer shall furnish a revised projected intrastate percentage that applies to the total BHMC, lines or trunks.

(M)

(M)

When the customer discontinues BHMC, lines or trunks from an existing group, the customer shall furnish a revised projected intrastate percentage for the remaining BHMC, lines or trunks in the end office group. The revised report will serve as the basis for future billing and will be effective on the next bill date. No prorating or back billing will be done based on the report.

Effective on the first of January, April, July and October of each year the customer shall update the intrastate and interstate jurisdictional report. The customer shall forward to the Telephone Company, to be received no later than fifteen (15) days after the first of each such month, a revised report showing the intrastate and interstate percentage of use for the past three months ending the last day of December, March, June and September, respectively, for each service arranged for intrastate use.

Revised reports will also be provided by the customer to Telephone Companies identified as Secondary Exchange Carriers in Section 16

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(C) Jurisdictional Reports (Cont'd)

(T)

(1) General (Cont'd)

following. Except where the Telephone Company is billing according to actuals by jurisdiction, the revised report will serve as the basis for the next three months billing and will be effective on the bill date for that service. No prorating or back billing will be done based on the report.

(M)

(M)

If the customer does not supply the reports, the Telephone Company will assume the percentages to be the same as those provided in the last quarterly report. For those cases in which a quarterly report has never been received from the customer, the Telephone Company will assume the percentages to be the same as those provided in the order for service as set forth in (2) following.

(2) Feature Groups A and B

- (a) Pursuant to Federal Communications Commission Order F.C.C. 85-145 released April 16, 1985, interstate and intrastate usage is to be developed as though every call that enters a customer network at a point within the same state as that in which the called station (as designated by the called station telephone number) is situated is an intrastate communication and every call for which the point of entry is a state other than that where the called station (as designated by the called station telephone number) is situated is an interstate communication.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(C) Jurisdictional Reports (Cont'd)

(T)

(2) Feature Groups A and B (Cont'd)

(b) When a customer orders Feature Group A or Feature Group B Switched Access Service the customer shall, in its order, state the projected intrastate percentage for intrastate usage for each Feature Group A or Feature Group B Switched Access Service group ordered. The term group shall be construed to mean single lines or trunks as well. If the customer discontinues some but not all of the Feature Group A or Feature Group B Switched Access Services in a group, it shall provide the projected intrastate percentage for such services which are remaining.

(c) For multiline hunt group or trunk group arrangements where either the intrastate or the interstate charges are based on measured usage, the intrastate Feature Group A or Feature Group B Switched Access Service(s) information reported as set forth in (a) and (b) preceding will be used to determine the charges.

For all groups the number of access minutes (either measured or assumed) for a group will be multiplied by the projected intrastate percentage to develop the intrastate access minutes. The number of access minutes for the group minus the developed intrastate access minutes for the group will be the developed interstate access minutes.

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2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(C) Jurisdictional Reports (Cont'd)

(T)

(D)

(3) Primary/Secondary Exchange Carrier
(PEC/SEC) Billing

(T)

Where the customer utilizes Feature Group A Switched Access Service for calls between a Primary Exchange Carrier and a Secondary Exchange Carrier within the same Extended Area Service calling area

(D)

(D)

where the Primary and Secondary Exchange Carriers are not the same Telephone Company or the Exchange Carriers do not have a Meet Point billing arrangement as set forth in 2.4.7(A)(1)(b) following for subtending end offices of an access tandem, a copy of the jurisdictional report will be provided by the customer to each billing Secondary Exchange Carrier identified in Section 16 following. This would also apply to the use of a B-1 service in an Intralata EAS area to originate and terminate calls.

(4) Feature Groups C and D

(T)

When a customer orders Feature Group C or Feature Group D Switched Access Service(s) the customer may provide the projected intrastate usage for each end office in its order. Alternatively the Telephone Company, where the jurisdiction can be determined from the call detail, will determine the projected intrastate percentage as follows:

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(C) Jurisdictional Reports (Cont'd) (T)

(4) Feature Groups C and D (Cont'd) (T)

- For originating access minutes, the projected intrastate percentage will be developed on a monthly basis by end office where the Feature Group C or Feature Group D Switched Access Service access minutes are measured by dividing the measured intrastate originating access minutes (the access minutes where the calling number and the called number is in the same state) by the total originating access minutes, when the call detail is adequate to determine the appropriate jurisdiction.
- For terminating access minutes, the data used by the Telephone Company to develop the projected intrastate percentage for originating access minutes will be used to develop the projected intrastate percentage for such terminating access minutes.

When originating call details are insufficient to determine the jurisdiction for the call, the customer shall supply the projected intrastate percentage or authorize the Telephone Company to use the Telephone Company developed percentage. This percentage shall be used by the Telephone Company as the projected intrastate percentage for originating and terminating access minutes. The projected interstate percentage of use will be obtained by subtracting the projected intrastate percentage for originating and terminating minutes from 100 (interstate percentage = 100 - intrastate percentage).

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.11 Jurisdictional Report Requirements (Cont'd)

(D) Billing Disputes Involving Jurisdictional Reports

(T)

If a billing dispute arises concerning the projected intrastate percentage, the Telephone Company will ask the customer to provide the data the customer uses to determine the projected intrastate percentage. The Telephone Company will not request such data more than once a year. The customer shall supply the data within thirty (30) days of the Telephone Company request.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.12 Determination of Intrastate Charges for Mixed Intrastate and Interstate Access Service

When mixed intrastate and interstate Access Service is provided, all charges (i.e., nonrecurring, monthly and/or usage) including optional features charges, will be prorated between intrastate and interstate. The percentage determined as set forth in 2.3.11(C) preceding will serve as the basis for prorating the charges unless the Telephone Company is billing according to actuals by jurisdiction. The percentage of an Access Service to be charged as intrastate is applied in the following manner:

(T)

(A) Monthly and Nonrecurring Charges

For monthly and nonrecurring chargeable rate elements, multiply the percent intrastate use times the quantity of chargeable elements times the stated tariff rate.

(B) Usage Sensitive Charges

For usage sensitive (i.e., access minutes and calls) chargeable rate elements, multiply the percent intrastate use times actual use (i.e., measured or Telephone Company assumed average use) times the stated tariff rate.

The intrastate percentage may change as revised usage reports are submitted as set forth in 2.3.11 preceding.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances

2.4.1 Payment of Rates, Charges and Deposits

(A) Deposits

The Telephone Company will only require a customer which has a proven history of late payments to the Telephone Company or does not have established credit, to make a deposit prior to or at any time after the provision of a service to the customer. No such deposit will be required of a customer which is a successor of a company which has established credit and has no history of late payments to the Telephone Company. Such deposit will not exceed the actual or estimated rates and charges for the service for a two month period. The fact that a deposit has been made in no way relieves the customer from complying with the Telephone Company's regulations as to the prompt payment of bills. At such time as the provision of the service to the customer is terminated, the amount of the deposit will be credited to the customer's account and any credit balance which may remain will be refunded.

Such a deposit will be refunded or credited to the account when the customer has established credit or, in any event, after the customer has established a one-year prompt payment record at any time prior to the termination of the provision of the service to the customer. In case of a cash deposit, for the period the deposit is held by the Telephone Company, the customer will receive interest ~~at the same percentage rate as that set forth in (C)(2) following.~~

The rate will be compounded daily for the number of days from the date the customer deposit is received by the Telephone Company to and including the date such deposit is credited to the customer's account or the date the deposit is refunded by the Telephone Company. Should a deposit be credited to the customer's account, as indicated above, no interest will accrue on the deposit from the date such deposit is credited to the customer's account.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(B) Bill Dates

The Telephone Company shall bill on a current basis all charges incurred by and credits due to the customer under this tariff attributable to services established or discontinued during the preceding billing period. In addition, the Telephone Company shall bill in advance charges for all services to be provided during the ensuing billing period except for charges associated with service usage and for the Federal Government which will be billed in arrears. The bill day (i.e., the billing date of a bill for a customer for Access Service under this tariff), the period of service each bill covers and the payment date will be as follows:

(1) Interlata Presubscription

For Interlata Presubscription Service, the Telephone Company will establish a bill day each month for each end user account or advise the customer in writing of an alternate billing schedule. Alternate billing schedules shall not be established on less than 60 days notice or initiated by the Telephone Company more than twice in any consecutive 12 month period. Any applicable Interlata Presubscription Charges, any known unbilled charges for prior periods and any known unbilled adjustments for Presubscription Service will be applied to this bill. Such bills are due when rendered.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(B) Bill Dates (Cont'd)

(2) Access Services Other Than Interlata
Presubscription

For Service other than Interlata Presubscription Service, the Telephone Company will establish a bill day each month for each customer account or advise the customer in writing of an alternate billing schedule. Alternate billing schedules shall not be established on less than 60 days notice or initiated by the Telephone Company more than twice in any consecutive 12 month period.

The bill will cover non usage sensitive service charges for the ensuing billing period for which the bill is rendered, any known unbilled nonusage sensitive charges for prior periods and unbilled usage charges for the period after the last bill day through the current bill day. Any known unbilled usage charges for prior periods and any known unbilled adjustments will be applied to this bill. Payment for such bills is due in immediately available funds by the payment date, as set forth in (C) following. If payment is not received by the payment date, a late payment penalty will apply as set forth in (C) following.

Effective Date: January 1, 1990

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(C) Payment Dates and Late Payment Penalties

- (1) All bills dated as set forth in (B)(2) preceding for service, other than interlata Presubscription Service, provided to the customer by the Telephone Company are due 31 days (payment date) after the bill day or by the next bill date (i.e., same date in the following month as the bill date), whichever is the shortest interval, except as provided herein, and are payable in immediately available funds. If the customer does not receive a bill at least 20 days prior to the 31 day payment due date, then the bill shall be considered delayed. When the bill has been delayed, upon request of the customer the due date will be extended by the number of days the bill was delayed. Such request of the customer must be accompanied with proof of late bill receipt.

Effective Date: January 1, 1990

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(C) Payment Dates and Late Payment Penalties (Cont'd)

(1) (Cont'd)

If such payment date would cause payment to be due on a Saturday, Sunday or Legal Holiday, payment for such bills will be due from the customer as follows:

- If the payment date falls on a Sunday or on a Legal Holiday which is observed on a Monday, the payment date shall be the first non-Holiday day following such Sunday or Legal Holiday.
- If the payment date falls on a Saturday or on a legal Holiday which is observed on Tuesday, Wednesday, Thursday or Friday, the payment date shall be the last non-Holiday day preceding such Saturday or Legal Holiday.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(C) Payment Dates and Late Payment Penalties (Cont'd)

- (2) Further, if no payment is received by the payment date or if a payment or any portion of a payment is received by the Telephone Company after the payment date as set forth in (1) preceding, or if a payment or any portion of a payment is received by the Telephone Company in funds which are not immediately available to the Telephone Company, then a late payment penalty shall be due to the Telephone Company. The late payment penalty shall be the payment or the portion of the payment not received by the payment date times a late factor. The late factor shall be the lessor of: (a) the highest interest rate (in decimal value) which may be levied by law for commercial transactions, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company, or (b) 0.000590 per day, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to the Telephone Company.

(D) Billing Disputes Resolved in Favor of the Telephone Company

Late payment charges will apply to amounts withheld pending settlement of the dispute. Late payment charges are calculated as set forth in (C)(2) preceding except that when the customer disputes the bill on or before the payment date and pays the undisputed amount on or before the payment date, the penalty interest period shall not begin until 10 days following the payment date.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(E) Billing Disputes Resolved in Favor of the Customer

If the customer pays the total billed amount and disputes all or part of the amount, the Telephone Company will refund the overpayment. In addition, the Telephone Company will pay to the customer penalty interest on the overpayment. When a claim is filed within 90 days of the due date, the penalty interest period shall begin on the payment date. When a claim is filed more than 90 days after the due date, the penalty interest period shall begin from the date of the claim or the date of overpayment, whichever is later. The penalty interest period shall end on the date that the Telephone Company actually refunds the overpayment to the customer. The penalty interest rate shall be

determined as described

section 2.4.1 (C) (2), preceding.

(D)
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(D)(T)
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(T)

(F) Proration of Charges

Adjustments for the quantities of services established or discontinued in any billing period beyond the minimum period set forth for services in other sections of this tariff will be prorated to the number of days based on a 30 day month. The Telephone Company will, upon request, furnish within 30 days of a request and at no charge to the customer such detailed information as may reasonably be required for verification of any bill.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(G) Rounding of Charges

When a rate as set forth in this tariff is shown to more than two decimal places, the charges will be determined using the rate shown. The resulting amount will then be rounded to the nearest penny (i.e., rounded to two decimal places).

2.4.2 Minimum Periods

The minimum period for which services are provided and for which rates and charges are applicable is one month except for those services set forth in Section 6. (Switched Access Service), 7.2.4, (Part-time Video and Program Audio), or as otherwise specified.

The minimum period for which service is provided and for which rates and charges are applicable for a Specialized Service or Arrangement provided on an individual case basis as set forth in Section 12 following, is one month unless a different minimum period is established with the individual case filing.

When a service is discontinued prior to the expiration of the minimum period, charges are applicable, whether the service is used or not, as follows:

- (A) When a service with a one month minimum period is discontinued prior to the expiration of the minimum period, a one month charge will apply at the rate level in effect at the time service is discontinued.
- (B) When a service with a minimum period greater than one month is discontinued prior to the expiration of the minimum period, the applicable charge will be the lesser of (1) the Telephone Company's total nonrecoverable costs less the net salvage value for the discontinued service or (2) the total monthly charges, at the rate level in effect at the time service is discontinued, for the remainder of the minimum period.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.3 Cancellation of an Order for Service

Provisions for the cancellation of an order for service are set forth in other applicable sections of this tariff.

2.4.4 Credit Allowance for Service Interruptions

(A) General

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this tariff or in the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer as set forth in 6.2.1 following. An interruption period starts when an inoperative service is reported to the Telephone Company, and ends when the service is operative.

(B) When a Credit Allowance Applies

In case of an interruption to any service, allowance for the period of interruption, if not due to the negligence of the customer, shall be provided.

For Digital Data Access, D1 through D4 and High Capacity, HCl, Special Access Services, any period during which the error performance is below that specified for the service will be considered as an interruption.

Service interruptions for Specialized Service or Arrangements provided under Section 12. following shall be administered in the same manner as those set forth in this section (2.4.4) unless other regulations are specified with the individual case filing.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

Credit allowances are computed as follows:

(1) Special Access Service other than Program Audio and Video

For Special Access Services other than Program Audio and Video Services, no credit shall be allowed for an interruption of less than 30 minutes. The customer shall be credited for an interruption of 30 minutes or more at the rate of 1/1440 of the monthly charges for the facility or service for each period of 30 minutes or Major Fraction Thereof that the interruption continues.

The monthly charges used to determine the credit shall be as follows:

(a) Two-point Services

For two-point services, the monthly charge shall be the total of all the monthly rate element charges associated with the service (i.e., two channel terminations, channel mileage and optional features and functions).

(b) Multipoint Services

For multipoint services, the monthly charge shall be only the total of all the monthly rate element charges associated with that portion of the service that is inoperative (i.e., a channel termination per customer designated premises, channel mileage and optional features and functions).

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(1) Special Access Service other than Program Audio and Video (Cont'd)

(c) Multiplexed Services

For multiplexed services, the monthly charge shall be the total of all the monthly rate element charges associated with that portion of the service that is inoperative. When the facility which is multiplexed or the multiplexer itself is inoperative, the monthly charge shall be the total of all the monthly rate element charges associated with the service (i.e., the channel termination, channel mileage and optional features and functions, including the multiplexer on the facility to the hub, and the channel terminations, channel mileages and optional features and functions on the individual services from the hub). When the service which rides a channel of the multiplexed facility is inoperative, the monthly charge shall be the total of all the monthly rate element charges associated with that portion of the service from the hub to a customer premises (i.e., channel termination, channel mileage and optional features and functions).

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(2) Program Audio and Video Special Access Services

For Program Audio and Video Special Access Services, no credit shall be allowed for an interruption of less than 30 seconds. The customer shall be credited for an interruption of 30 seconds or more as follows:

- (a) For two-point services, when monthly rates are applicable, the credit shall be at the rate of 1/8640 of the monthly charges for the service for each period of 5 minutes or fraction thereof that the interruption continues.
- (b) For two-point services, when daily rates are applicable, the credit shall be at the rate of 1/288 of the daily charges for the service for each period of 5 minutes or fraction thereof that the interruption continues.
- (c) For multipoint services, when monthly rates are applicable, the credit shall be at the rate of 1/8640 of the monthly charges for each channel termination, channel mileage and optional features and functions that are inoperative for each period of 5 minutes or fraction thereof that the interruption continues.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(2) Program Audio and Video Special Access Services
(Cont'd)

- (d) For multipoint services, when daily rates are applicable, the credit shall be at the daily rate of 1/288 of the daily charges for channel termination, channel mileage and optional features and functions that are inoperative for each period of 5 minutes or fraction thereof that the interruption continues.
- (e) For multipoint services, the credit for the monthly or daily charges includes the charges for the distribution amplifier only when the distribution amplifier is inoperative.
- (f) When two or more interruptions occur during a period of 5 consecutive minutes, such multiple interruptions shall be considered as one interruption.

(3) Switched Access Service

For Switched Access Service, no credit shall be allowed for an interruption of less than 24 hours. The customer shall be credited for an interruption of 24 hours or more at the rate of 1/30 of any applicable monthly rate or assumed minutes of use charge for each period of 24 hours or major fraction thereof that the interruption continues.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(B) When a Credit Allowance Applies (Cont'd)

(4) Credit Allowances Cannot Exceed Monthly Rate

The credit allowance(s) for an interruption or for a series of interruptions shall not exceed any monthly rate for the service interrupted in any one monthly billing period.

(C) When a Credit Allowance does Not Apply

No credit allowance will be made for:

- (1) Interruptions caused by the negligence of the customer.
- (2) Interruptions of a service due to the failure of equipment or systems provided by the customer or others.
- (3) Interruptions of a service during any period in which the Telephone Company is not afforded access to the premises where the service is terminated.
- (4) Interruptions of a service when the customer has released that service to the Telephone Company for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service during the time that was negotiated with the customer prior to the release of that service. Thereafter, a credit allowance as set forth in (B) preceding applies.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(C) When a Credit Allowance does Not Apply (Cont'd)

- (5) Interruptions of a service which continue because of the failure of the customer to authorize replacement of any element of special construction, as set forth in Section 9 following. The period for which no credit allowance is made begins on the seventh day after the customer receives the Telephone Company's written notification of the need for such replacement and ends on the day after receipt by the Telephone Company of the customer's written authorization for such replacement.
- (6) Periods when the customer elects not to release the service for testing and/or repair and continues to use it on an impaired basis
- (7) An interruption or a group of interruptions, resulting from a common cause, that would result in credit in an amount less than one dollar.

(D) Use of an Alternative Service Provided by the Telephone Company

Should the customer elect to use an alternative service provided by the Telephone Company during the period that a service is interrupted, the customer must pay the tariffed rates and charges for the alternative service used.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(E) Temporary Surrender of a Service

In certain instances, the customer may be requested by the Telephone Company to surrender a service for purposes other than maintenance, testing or activity relating to a service order. If the customer consents, a credit allowance will be granted. The credit allowance will be 1/1440 of the monthly rate for each period of 30 minutes or fraction thereof that the service is surrendered. In no case will the credit allowance exceed the monthly rate for the service surrendered in any one monthly billing period.

2.4.5 Re-establishment of Service Following Fire, Flood or Other Occurrence

(A) Nonrecurring Charges Do Not Apply

Charges do not apply for the re-establishment of service following a fire, flood or other occurrence attributed to an Act of God provided that:

- (1) The service is of the same type as was provided prior to the fire, flood or other occurrence.
- (2) The service is for the same customer.
- (3) The service is at the same location on the same premises.
- (4) The re-establishment of service begins within 60 days after Telephone Company service is available. (The 60 day period may be extended a reasonable period if the renovation of the original location on the premises affected is not practical within the allotted time period.)

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.5 Re-establishment of Service Following Fire, Flood or Other Occurrence (Cont'd)

(B) Nonrecurring Charges Apply

Nonrecurring Charges apply for establishing service at a different location on the same premises or at a different premises pending re-establishment of service at the original location.

2.4.6 Title or Ownership Rights

The payment of rates and charges by customers for the services offered under the provisions of this tariff does not assign, confer or transfer title or ownership rights to proposals or facilities developed or utilized, respectively, by the Telephone Company in the provision of such services.

2.4.7 Access Services Provided By More Than One Telephone Company

(A) When an Access Service is provided by more than one Telephone Company, the Telephone Companies involved will mutually agree upon one of the billing methods as set forth in (1) and (2) following based upon the interconnection arrangements between the Telephone Companies and the availability of measurement capability. The Telephone Company will notify the customer which of the billing methods will be used. The customer will place the order for the service as set forth in 5.3 following dependent upon the billing method.

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WISCONSIN STATE TELEPHONE ASSOCIATION
INTRASTATE ACCESS CHARGE TARIFF

INTRASTATE ACCESS TARIFF NO. 1
Section 2
1st Revision Page 43
Amendment No. 11

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(1) Non Meet Point Billing

At the option of the Telephone Company, the Non Meet Point Billing options may be applied to Feature Groups A Switched Access Service.

(C)

(a) Single Company Billing/Single Bill Option

The Telephone Company receiving the order from the customer, as specified in 5.3.1(A)(1) following, will arrange to provide the service, determine the applicable charges and bill the customer for the entire service in accordance with its Access Services tariff.

(b) Primary Exchange Carrier/Secondary Exchange Carrier Billing Option

Where the customer utilizes FGA Switched Access Service or B-1 service for calls between a Primary Exchange Carrier and a Secondary Exchange Carrier within the same Extended Area Service calling area, as set forth in 6.4.1(C)(7) following;

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under these

(D)

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(1) Non Meet Point Billing (Cont'd)

(b) Primary Exchange Carrier/Secondary Exchange Carrier Billing Option (Cont'd)

arrangements, the Telephone Company receiving the order from the customer, as specified in 5.3.1(A)(1) following, will determine the applicable charges and bill the customer for the service in accordance with its Access Services tariff. In addition, the Secondary Exchange Carrier will receive a copy of the order as specified in 5.3.1(B) following and apply additional Switched Access Service rates provided the following criteria are met:

- the Primary and Secondary Exchange Carriers are not the same Telephone Company,
- the Primary and Secondary Exchange Carriers do not have a revenue sharing arrangement where the Primary Exchange Carrier bills the total cost of access which includes the Secondary Exchange Carrier's cost of access.

(D)

(D)

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(1) Non Meet Point Billing (Cont'd)

(b) Primary Exchange Carrier/Secondary Exchange Carrier Billing Option (Cont'd)

The additional Switched Access Service Rates are applied as follows: for FGA Switched Access Service and B-1 service the Secondary Exchange Carrier(s) will apply Switched Access Service Local Transport rates to originating access minutes, End Office rates to both originating and terminating access minutes, and carrier common line rates to originating access minutes, as set forth respectively in 17.2.2, 17.2.3 and 17.1.1 following for all such access minutes;

Such Switched Access Service charges will be in addition to those charged by the Primary Exchange Carrier.

(D)

(D)

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(1) Non Meet Point Billing (Cont'd)

(b) Primary Exchange Carrier/Secondary Exchange Carrier Billing Option (Cont'd)

Where the Primary Exchange Carrier and the Secondary Exchange Carrier do have a revenue sharing arrangement where the Primary Exchange Carrier bills the total cost of access which includes the Secondary Exchange Carrier's cost of access, or where the Primary Exchange Carrier and the Secondary Exchange Carrier have a Meet Point Billing arrangement, the Secondary Exchange Carrier is precluded from billing as set forth preceding.

Secondary Exchange Carriers which are parties to such Extended Area Service and Access Tandem arrangements, as described preceding, are identified in Section 16 following.

(2) Meet Point Billing

Meet Point Billing is required when an access service is provided by multiple Telephone Companies for Feature Groups B, C and D Switched Access Services, and Special Access. It is optional for Feature Group A Switched Access Services. (C)

For usage rated access services the access minutes of use will be determined by the Initial Billing Company and used by the Initial Billing Company and any Subsequent Billing Company(s) for the development of access charges. (C)

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

- The Initial Billing Company for Feature Groups B, C and D Switched Access Services is normally the end user's end office, for WATS usage the Initial Billing Company is normally the WATS serving office. When the Initial Billing Company is other than the normally designated Telephone Company office, the Telephone Company will notify the customer. (C)
- The Subsequent Billing Company(s) is any Telephone Company(s) in whose territory a segment of Local Transport is provided and/or where the customer's Point of Termination is located.

There are two Meet Point Billing Options -- Single Bill and Multiple Bill. The Single Bill option is the preferred method.

The Telephone Company must notify the customer of:

- the Meet Point Billing Option that will be used,
- the Telephone Company(s) that will render the bill(s),

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)
(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

- the Telephone Company(s) to whom payment(s) should be remitted, and
- the Telephone Company(s) that will provide the bill inquiry function.

The Telephone Company shall provide such notification at the time that orders are placed for access service. Additionally, the Telephone Company shall provide this notice in writing 30 days in advance of any changes.

The Telephone Company that renders the bill -- the Bill Rendering Telephone Company -- will include on the access service bill, based upon Industry Standards as described in the Multiple Exchange Carrier Access Billing Guidelines and the Multiple Exchange Carrier Ordering and Design Guidelines, cross reference(s) to the other Telephone Company(s) service and the common circuit identifiers. Should a billing dispute arise, the terms and conditions of the Bill Rendering Telephone Company will apply.

(a) Single Bill Option

The Single Bill option provides the following three billing alternatives:

- Single Bill/Multiple Tariff,
- Single Bill/Pass-Through Billing, and
- Single Bill/Single Tariff.

These options are described following in i, ii and iii respectively.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(a) Single Bill Option (Cont'd)

(i) Single Bill/Multiple Tariff

Each Telephone Company will receive an order or a copy of the order from the customer as specified in 5.3.2 following and arrange to provide the service. The Bill Rendering Telephone Company will:

- determine and include all other recurring and nonrecurring rates and charges for each involved Telephone Company;
- identify each involved Telephone Company's rates and charges separately on the bill;
- forward the bill to the customer; and
- advise the customer how to remit the payment, either directly to each Telephone Company involved in the provision of this meet point billed service; or, as a single payment made to the Bill Rendering Telephone Company. If payments are to be sent directly to the Bill Rendering Telephone Company, the non-bill rendering Telephone Company(s) will provide the customer with written authorization for the payment arrangement.

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2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(a) Single Bill Option (Cont'd)

(ii) Single Bill/Pass-Through Billing

Each Telephone Company will receive an order or a copy of the order from the customer as specified in 5.3.2 following and arrange to provide the service. Each Telephone Company will:

- prepare its own bill;
- determine its rates and charge(s) for Transport, and/or Channel Mileage as set forth in (c) following;
- determine and include all other recurring and nonrecurring rates and charges of its access tariff; and
- forward the bill to the Bill Rendering Telephone Company for the meet point billed access services.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(a) Single Bill Option (Cont'd)

(ii) Single Bill/Pass-Through Billing
(Cont'd)

The Bill Rendering Telephone Company will:

- apply usage data, when needed, to the bill and calculate the charges;
- identify each involved Telephone Company's charges separately on the bill;
- combine all the bills of the involved Telephone Companies of a meet point billed access service into one access bill;
- forward the bill to the customer; and
- advise the customer how to remit the payment, either directly to each Telephone Company involved in the provision of this meet point billed service; or, as a single payment made to the Bill Rendering Telephone Company. If payments are to be sent directly to the Bill rendering Telephone Company, the non-bill rendering Telephone Company(s) will provide the customer with written authorization for the payment arrangement.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(a) Single Bill Option (Cont'd)

(iii) Single Bill/Single Tariff

Each Telephone Company will receive an order or a copy of the order from the customer as specified in 5.3.2 following and arrange to provide the service. The Bill Rendering Telephone Company will:

- determine and include all other recurring and nonrecurring rates and charges of its access tariff; and
- forward the bill to the customer.

The customer will remit the payment to the Bill Rendering Telephone Company.

(b) Multiple Bill Option

Each Telephone Company will receive an order or a copy of the order from the customer as specified in 5.3.2 following. Each Telephone Company will be the Bill Rendering Telephone Company and will:

- prepare its own bill;

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(b) Multiple Bill Option (Cont'd)

- determine its charge(s) for Transport, and/or Channel Mileage as set forth in (c) following;
- determine and include all other recurring and nonrecurring rates and charges of its access tariff;
- bill in accordance with its access tariff; and
- forward its bill to the customer.

The customer will remit payment directly to each Bill Rendering Telephone Company.

(c) Determination of Meet Point Billed Transport, and Channel Mileage Charges

Each Telephone Company's portion of the Transport and Channel mileage will be determined as follows:

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(c) Determination of Meet Point Billed Transport and Channel Mileage Charges (Cont'd)

- (i) Determine the appropriate Transport or Channel Mileage by computing the number of airline miles between the Telephone Company premises and the initial access tandem or serving wire center or POC as appropriate using the V&H method set forth respectively in 6.4.6 and 7.2.5 following.
- (ii) Determine the billing percentage (BP) which represents the portion of the service provided by the phone company.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(c) Determination of Meet Point Billed Transport and Channel Mileage Charges (Cont'd)

(iii) For Feature Groups A, B, C and D Switched Access Services using BP Method, (a) multiply the number of access minutes of use times the number of airline miles, as set forth in (i) preceding, times the BP for each Telephone Company, as set forth in (ii) preceding, times the applicable Transport Facility rate; (b) multiply the applicable Transport Termination rate times the number of access minutes.

The Transport Termination rates are applied as set forth in 6.1.3(A) following. The Switched Access Nonrecurring Charges are applied as set forth in 6.4.1(B) following. (Note: The BP is not applied to the Transport Termination Recurring Rate, or any Non-recurring Charge.)

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(c) Determination of Meet Point Billed Transport and Channel Mileage Charges (Cont'd)

(iv) For Special Access, multiply the number of airline miles, as set forth in (i) preceding, times the BP for each Telephone Company, as set forth in (ii) preceding, times the Channel Mileage Facility rate and add the Channel Mileage Termination rate.

The Special Access Channel Mileage Termination rate and nonrecurring charges are applied as set forth in 7.2.1(B)(2) and 7.2.2(C) following. (Note: The BP is not applied to either the Channel Mileage Termination Recurring Rate or any Nonrecurring Charge.)

(v) Held for future use.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Access Services Provided By More Than One Telephone Company (Cont'd)

(A) (Cont'd)

(2) Meet Point Billing (Cont'd)

(c) Determination of Meet Point Billed Transport Channel Mileage Charges (Cont'd)

- (vi) When three or more Telephone Companies are involved in providing an Access Service, the intermediate Telephone Company(s) will determine the appropriate charges as set forth in (iii) and (iv) preceding, except the Transport Termination or Channel Mileage Termination rate does not apply at the intermediate Telephone Company(s) offices.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.7 Held For Future Use

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections

Equipment and systems (i.e., terminal equipment, multiline terminating systems and communications systems) may be connected with Switched and Special Access Service furnished by the Telephone Company where such connection is made in accordance with the provisions specified in Technical Reference Publication AS No. 1 and in 2.1 preceding.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions

Certain terms used herein are defined as follows:

800 Data Base Access Service

The term "800 Data Base Access Service" denotes a service which uses a data base system to identify 800 access customers on a 10-digit basis. For purposes of administering the rules and regulations set forth in this tariff regarding the provision of 800 Database Access, except where otherwise specified, 800 Database Access Service shall include the following service access codes 800, 888, 877, 866, 855, 844, 833, and 822.

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800 Series

The term 800 series denotes the service access code of 800, 888, 877, 866, 855, 844, 833, and 822.

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Access Codes

The term "Access Code" denotes a uniform five or seven digit access code assigned by the Telephone Company to an individual customer. The five digit code has the form 10XXX or 101XXXX, and the seven digit code has the form 950-1XXX or 950-0XXX.

Access Minutes

For the purpose of calculating chargeable usage, the term "Access Minutes" denotes customer usage of exchange facilities in the provision of intrastate service. On the originating end of an intrastate call, usage is measured from the time the originating end user's call is delivered by the Telephone Company to and acknowledged as received by the customer's facilities connected with the originating exchange. On the terminating end of an intrastate call, usage is measured from the time the call is received by the end user in the terminating exchange. Timing of usage at both originating and terminating ends of an intrastate call shall terminate when the calling or called party disconnects, whichever event is recognized first in the originating and terminating exchanges, as applicable.

Effective Date: _____

Authorized by PSCW Order _____ Letter JUN 12 1996

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Access Provider

The term "Access Provider" denotes a local Telephone Company switching system where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to each other and to trunks. This term includes Remote Switching Modules/Systems served by a Host Central Office in a different wire center.

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Access Tandem

The term "Access Tandem" denotes a Telephone Company switching system that provides a concentration and distribution function for originating or terminating traffic between end offices and a customer designated premises.

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Answer/Disconnect Supervision

The term "Answer/Disconnect Supervision" denotes the transmission of the switch trunk equipment supervisory signal (off-hook or on-hook) to the customer's point of termination as an indication that the called party has answered or disconnected.

Attenuation Distortion

The term "Attenuation Distortion" denotes the difference in loss at specified frequencies relative to the loss at 1004 Hz, unless otherwise specified.

Balance (100 Type) Test Line

The term "Balance (100 Type) Test Line" denotes an arrangement in an end office which provides for balance and noise testing.

Bit

The term "Bit" denotes the smallest unit of information in the binary system of notation.

Effective Date: _____

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Business Day

The term "Business Day" denotes the times of day that a company is open for business. Generally, in the business community, these are 8:00 or 9:00 a.m. to 5:00 or 6:00 p.m., respectively, with an hour for lunch, Monday through Friday, resulting in a standard forty (40) hour work week. However, Business Day hours for the Telephone Company may vary based on company policy, union contract and location. To determine such hours for an individual company, or company location, that company should be contacted at the address shown under the Issuing Carrier's name listed on Title Pages 2 through 6 preceding.

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Busy Hour Minutes of Capacity (BHMC)

The term "Busy Hour Minutes of Capacity (BHMC)" denotes the customer specified maximum amount of Switched Access Service and/or Directory Assistance Service access minutes the customer expects to be handled in an end office switch during any hour in an 8:00 a.m. to 11:00 p.m. period for the Feature Group and/or Directory Assistance Service ordered. This customer specified BHMC quantity is the input data the Telephone Company uses to determine the number of transmission paths for the Feature Group and/or Directory Assistance Service ordered.

Call

The term "Call" denotes a customer attempt for which complete address information (e.g., 0-, 911, or 10 digits) is provided to the serving dial tone office.

Carrier or Common Carrier

See Interexchange Carrier.

CCS

The term "CCS" denotes a hundred call seconds, which is a standard unit of traffic load that is equal to 100 seconds of usage or capacity of a group of servers (e.g., trunks).

Central Office

See End Office.

Effective Date: _____

Authorized by PSCW Order _____ Letter JUN 12 1996

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Central Office Maintenance Technician

The term "Central Office Maintenance Technician" denotes a Telephone Company employee who performs installation and/or repair work, including testing and trouble isolation, within the Telephone Company Central Office.

Central Office Prefix

The term "Central Office Prefix" denotes the first three digits (NXX) of the seven digit telephone number assigned to a customer's Telephone Exchange Service when dialed on a local basis.

Channel(s)

The term "Channel(s)" denotes an electrical or photonic, in the case of fiber optic-based transmission systems, communications path between two or more points of termination.

Channel Service Unit

The term "Channel Service Unit" denotes equipment which performs one or more of the following functions: termination of a digital facility, regeneration of digital signals, detection and/or correction of signal format error, and remote loop back.

Channelize

The term "Channelize" denotes the process of multiplexing-demultiplexing wider bandwidth or higher speed channels into narrower band-width or lower speed channels.

C-Message Noise

The Term "C-Message Noise" denotes the frequency weighted average noise within an idle voice channel. The frequency weighting, called C-message, is used to simulate the frequency characteristic of the 500-type telephone set and the hearing of the average subscriber.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

C-Notched Noise

The term "C-Notched Noise" denotes the C-message frequency weighted noise on a voice channel with a holding tone, which is removed at the measuring end through a notch (very narrow band) filter.

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Common Channel Signaling

The term "Common Channel Signaling" (CCS) denotes a high speed packet switched communications network which is separate (out of band) from the public packet switched and message networks. Its purpose is to carry addressed signaling messages for individual trunk circuits and/or database related services between Signaling Points in the CCS network.

Common Line

The term "Common Line" denotes a line, trunk, pay telephone line or other facility provided under the general and/or local exchange service tariffs of the Telephone Company, terminated on a central office switch. A common line-residence is a line or trunk provided under the residence regulations of the general and/or local exchange service tariffs. A common line-business is a line provided under the business regulations of the general and/or local exchange service tariffs.

Communications System

The term "Communications System" denotes channels and other facilities which are capable of communications between terminal equipment provided by other than the Telephone Company.

Customer(s)

The term "Customer(s)" denotes any individual, partnership, association, joint-stock company, trust, corporation, or governmental entity or other entity which subscribes to the services offered under this tariff, including Interexchange Carriers (ICs), Toll Providers and End Users.

Effective Date: April 15, 1997

Authorized by PSCW Order _____ Letter APR 1 1997

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Customer Designated Premises

The term "Customer Designated Premises" denotes the premises specified by the customer for the provision of Access Service.

Data Transmission (107 Type) Test Line

The Term "Data Transmission (107 Type) Test Line" denotes an arrangement which provides for a connection to a signal source which provides test signals for one-way testing of data and voice transmission parameters.

Decibel

The term "Decibel" denotes a unit used to express relative difference in power, usually between acoustic or electric signals, equal to ten (10) times the common logarithm of the ratio of two signal powers.

Decibel Reference Noise C-Message Weighting

The term "Decibel Reference Noise C-Message Weighting" denotes noise power measurements with C-Message Weighting in decibels relative to a reference 1000 Hz tone of 90 dB below 1 milliwatt.

Decibel Reference Noise C-Message Referenced to 0

The term "Decibel Reference Noise C-Message Referenced to 0" denotes noise power in "Decibel Reference Noise C-Message Weighting" referred to or measured at a zero transmission level point.

Detail Billing

The term "Detail Billing" denotes the listing of each message and/or rate element for which charges to a customer are due on a bill prepared by the Telephone Company.

Digital Switched 56 Service

A switched access optional feature available with Feature Group D Access, which provides for data transmission at up to 56 Kilobits per second.

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Effective Date: April 27, 1994

Authorized by PSCW Order _____ Letter April 27, 1994

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Directory Assistance (Intrastate)

The term "Directory Assistance" denotes the provision of telephone numbers by a Telephone Company operator when the operator location is accessed by a customer by dialing 411, NPA + 555-1212 or 555-1212.

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Dual Tone Multifrequency Address Signaling

The term "Dual Tone Multifrequency Address Signaling" denotes a type of signaling that is an optional feature of Switched Access Feature Group A. It may be utilized when Feature Group A is being used in the terminating direction (from the point of termination with the customer to the local exchange end office). An office arranged for Dual Tone Multifrequency Signaling would expect to receive address signals from the customer in the form of Dual Tone Multifrequency signals.

Echo Control

The term "Echo Control" denotes the control of reflected signals in a telephone transmission path.

Echo Path Loss

The term "Echo Path Loss" denotes the measure of reflected signal at a 4-wire point of interface without regard to the send and receive Transmission Level Point.

Echo Return Loss

The term "Echo Return Loss" denotes a frequency weighted measure of return loss over the middle of the voiceband (approximately 500 to 2500 Hz), where talker echo is most annoying.

Effective Date: April 27, 1994

Authorized by PSCW Order _____ Letter April 27, 1994

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Effective 2-Wire

The term "Effective 2-Wire" denotes a condition which permits the simultaneous transmission in both directions over a channel, but it is not possible to insure independent information transmission in both directions. Effective 2-wire channels may be terminated with 2-wire or 4-wire interfaces.

Effective 4-Wire

The term "Effective 4-Wire" denotes a condition which permits the simultaneous independent transmission of information in both directions over a channel. The method of implementing effective 4-wire transmission is at the discretion of the Telephone Company (physical, time domain, frequency-domain separation or echo cancellation techniques). Effective 4-wire channels may be terminated with a 2-wire interface at the customer's premises. However, when terminated 2-wire, simultaneous independent transmission cannot be supported because the two wire interface combines the transmission paths into a single path.

End Office

The term "End Office" denotes a local Telephone Company switching system where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to each other and to trunks. This term includes Remote Switching Modules/Systems served by a Host Central Office in a different wire center.

End User

The term "End User" means any customer of an intrastate telecommunications service that is not a carrier, except that a carrier other than a telephone company shall be deemed to be an "end user" when such carrier uses a telecommunications serviced for administrative purposes, and a person or entity that offers telecommunications service exclusively as a reseller shall be deemed to be an "end user" if all resale transmissions offered by such reseller originate on the premises of such reseller.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Enhanced Service

The term "Enhanced Service", as defined in Part 64 of the F.C.C.'s Rules and Regulations, are services "...offered over common carrier transmission facilities used in intrastate communications, which employ computer processing applications that act on the format, content, code, protocol or similar aspects of the subscriber's transmitted information; provide the subscriber additional, different, or restructured information; or involve subscriber interaction with stored information."

Entry Switch

See First Point of Switching.

Envelope Delay Distortion

The term "Envelope Delay Distortion" denotes a measure of the linearity of the phase versus frequency of a channel.

Equal Level Echo Path Loss

The term "Equal Level Echo Path Loss" (ELEPL) denotes the measure of Echo Path Loss (EPL) at a 4-wire interface which is corrected by the difference between the send and receive Transmission Level Point (TLP). $[ELEPL = EPL - TLP(\text{send}) + TLP(\text{receive})]$.

Exchange

The term "Exchange" denotes a unit generally smaller than a local access and transport area, established by the Telephone company for the administration of communications service in a specified area which usually embraces a city, town or village and its environs. It consists of one or more central offices together with the associated facilities used in furnishing communications service within that area. The exchange includes any Extended Area Service area that is an enlargement of a Telephone Company's exchange area to include nearby exchanges. One or more designated exchanges comprise a given local access and transport area.

Exit Message

The term "Exit Message" denotes an SS7 message sent to an end office by the Telephone Company's tandem switch to mark the Carrier Connect Time when the Telephone Company's tandem switch sends an Initial Address Message to an interexchange customer.

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Effective Date: January 3, 1994

Authorized by PSCW Order _____ Letter January 3, 1994

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Expected Measured Loss

The term "Expected Measured Loss" denotes a calculated loss which specifies the end-to-end 1004 Hz loss on a terminated test connection between two readily accessible manual or remote test points. It is the sum of the inserted connection loss and test access loss including any test pads.

Extended Area Service

See Exchange.

First Point of Switching

The term "First Point of Switching" denotes the first Telephone Company centralized equal access provider location at which switching occurs on the terminating path of a call proceeding from the customer designated premises to the terminating end office and, at the same time, the last Telephone Company location at which switching occurs on the originating path of a call proceeding from the originating end office to the customer designated premises.

Frequency Shift

The term "Frequency Shift" denotes the change in the frequency of a tone as it is transmitted over a channel.

Grandfathered

The term "Grandfathered" denotes Terminal Equipment, Multiline Terminating Systems and Protective Circuitry directly connected to the facilities utilized to provide services under the provisions of this tariff, and which are considered grandfathered under Part 68 of the F.C.C.'s Rules and Regulations.

Host Central Office

The term "Host Central Office" denotes an electronic local Telephone Company End Office where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to each other and to trunks. Additionally, this type of End Office contains the central call processing functions which service itself and its Remote Switching Modules/Systems.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Immediately Available Funds

The term "Immediately Available Funds" denotes a corporate or personal check drawn on a bank account and funds which are available for use by the receiving party on the same day on which they are received and include U.S. Federal Reserve bank wire transfers, U.S. Federal Reserve notes (paper cash), U.S. coins, U.S. Postal Money Orders and New York Certificates of Deposit.

Impedance Balance

The term "Impedance Balance" denotes the method of expressing Echo Return Loss and Singing Return Loss at a 4-wire interface whereby the gains and/or loss of the 4-wire portion of the transmission path, including the hybrid, are not included in the specification.

Impulse Noise

The term "Impulse Noise" denotes any momentary occurrence of the noise on a channel over a specified level threshold. It is evaluated by counting the number of occurrences which exceed the threshold.

Individual Case Basis

The term "Individual Case Basis" denotes a condition in which the regulations, if applicable, rates and charges for an offering under the provisions of this tariff are developed based on the circumstances in each case.

Initial Address Message

The term "Initial Address Message" denotes an SS7 message sent in the forward direction to initiate trunk set up, reserve an outgoing trunk and process the information about that trunk along with other data relating to the routing and handling of the call to the next switch.

Inserted Connection Loss

The term "Inserted Connection Loss" denotes the 1004 Hz power difference (in dB) between the maximum power available at the originating end and the actual power reaching the terminating end through the inserted connection.

Effective Date: January 3, 1994

Authorized by PSCW Order _____ Letter January 3, 1994

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Installation and Repair Technician

The term "Installation and Repair Technician" denotes a Telephone Company employee who performs installation and/or repair work, including testing and trouble isolation, outside of the Telephone Company Central Office and generally at the customer designated premises.

Interexchange Carrier (IC) or Interexchange Common Carrier

The terms "Interexchange Carrier" (IC) or "Interexchange Common Carrier" denotes any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged for hire in intrastate communication by wire or radio, between two or more exchanges.

Intermodulation Distortion

The term "Intermodulation Distortion" denotes a measure of the nonlinearity of a channel. It is measured using four tones, and evaluating the ratios (in dB) of the transmitted composite four-tone signal power to the second-order products of the tones (R2), and the third-order products of the tones (R3).

Interstate Communications

The term "Interstate Communications" denotes both interstate and foreign communications.

Intrastate Communications

The term "Intrastate Communications" denotes any communications within Wisconsin subject to oversight by the Wisconsin Public Service Commission as provided by law.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Legal Holiday

The term "Legal Holiday" denotes days other than Saturday or Sunday for which the Telephone Company is normally closed. These include New Year's Day, Independence Day, Thanksgiving Day, Christmas Day and a day when Washington's Birthday, Memorial Day is legally observed and other locally observed holidays when the Telephone Company is closed.

Line Side Connection

The terms "Line Side Connection" denotes a connection of a transmission path to the line side of a local exchange switching system.

Local Access and Transport Area (LATA)

The term "Local Access and Transport Area" denotes a geographic area established for the provision and administration of communications service. It encompasses one or more designated exchanges, which are grouped to serve common social, economic and other purposes.

Loss Deviation

The term "Loss Deviation" denotes the variation of the actual loss from the designed value.

Major Fraction Thereof

The term "Major Fraction Thereof" denotes any period of time in excess of 1/2 of the stated amount of time. As an example, in considering a period of 24 hours, a major fraction thereof would be any period of time in excess of 12 hours exactly. Therefore, if a given service is interrupted for a period of thirty-six hours and fifteen minutes, the customer would be given a credit allowance for two twenty-four hour periods for a total of forty eight hours.

Message

The term "Message" denotes a "call" as defined preceding.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Milliwatt (102 Type) Test Line

The term "Milliwatt (102 Type) Test Line" denotes an arrangement in an end office which provides a 1004 Hz tone at 0 dBm0 for one-way transmission measurements towards the customers's premises from the Telephone Company end office.

Network Control Signaling

The term "Network Control Signaling" denotes the transmission of signals used in the telecommunications system which perform functions such as supervision (control, status, and charge signals), address signaling (e.g., dialing), calling and called number identifications, rate of flow, service selection error control and audible tone signals (call progress signals indicating re-order or busy conditions, alerting, coin denominations, coin collect and coin return tones) to control the operation of the telecommunications system.

Nonsynchronous Test Line

The term "Nonsynchronous Test Line" denotes an arrangement in step-by-step end offices which provides operational tests which are not as complete as those provided by the synchronous test lines, but can be made more rapidly.

North American Numbering Plan

The term "North American Numbering Plan" denotes a three-digit area code (Numbering Plan Area - NPA) and a seven-digit telephone number made up of a three-digit Central Office prefix plus a four-digit station number.

Off-hook

The term "Off-hook" denotes the active condition of Switched Access or a Telephone Exchange Service line.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

On-hook

The term "On-hook" denotes the idle condition of Switched Access or a Telephone Exchange Service line.

Open Circuit Test Line

The term "Open Circuit Test Line" denotes an arrangement in an end office which provides an ac open circuit termination of a trunk or line by means of an inductor of several Henries.

Originating Direction

The term "Originating Direction" denotes the use of access service for the origination of calls from an End User Premises to an IC or TP Premises.

Pay Telephone

The term "Pay Telephone" denotes a location where Telephone Company equipment is provided in a public or semipublic place where Telephone Company customers can originate telephonic communications and pay the applicable charges by (1) inserting coins into the equipment, or (2) using a credit card, or (3) third party billing the call or (4) calling collect.

Phase Jitter

The term "Phase Jitter" denotes the unwanted phase variations of a signal.

Point of Connection

The term "Point of Connection" (POC) denotes that location where the facilities of the Telephone Company physically meet the facilities of the toll provider or the interexchange carrier, or another mutually agreed to location.

Point of Termination

The term "Point of Termination" denotes the point of demarcation within a customer-designated premises at which the Telephone Company's responsibility for the provision of Access Service ends.

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Premises

The term premises denotes a building or buildings on continuous property (except (Railroad Right-of-Way) not separated by a public highway.

Primary Exchange Carrier

The term "Primary Exchange Carrier" denotes the Local Exchange Telephone Company in whose exchange a customer's first point of switching (i.e., dial tone office for FGA, access tandem for FGB) is located.

Primary Transport Route

The term "Primary Transport Route" denotes the route designated by the End Office Company, with concurrence of the affected Access Tandem Company, as carrying greater than 50% of the Traffic ordered by the Toll Provider or Interexchange Carrier.

Release Message

The term "Release Message" denotes an SS7 Message sent in either direction to indicate that a specific circuit is being released.

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Remote Switching Modules/Systems

The term "Remote Switching Modules/Systems" denotes small, remotely controlled electronic end office switches which obtain their call processing capability from an electronic Host Central Office. The Remote Switching Modules/Systems cannot accommodate direct trunks to an IC.

Return Loss

The term "Return Loss" denotes a measure of the similarity between the two impedances at the junction of two transmission paths. The higher the return loss, the higher the similarity.

Registered Equipment

The term "Registered Equipment" denotes the customer's premises equipment which complies with and has been approved within the Registration Provisions of Part 68 of the F.C.C.'s Rules and Regulations.

Effective Date: January 3, 1994

Authorized by PSCW Order _____ Letter January 3, 1994

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Secondary Exchange Carrier

The term "Secondary Exchange Carrier" denotes the Local Exchange Telephone Company in whose exchange a customer's end users end office is located and where the customer's first point of switching is provided by a Primary Exchange Carrier who is not the same Exchange Carrier as the Secondary Exchange Carrier.

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Service Access Code

The term "Service Access Code" denotes a 3 digit code in the NPA format which is used as the first three digits of a 10 digit address and which is assigned for special network uses. Whereas NPA codes are normally used for identifying specific geographical areas, certain Service Access Codes have been allocated in the North American Numbering Plan to identify generic services or to provide access capability. Examples of Service Access Codes include the 800 and 900 codes.

Serving Wire Center

The term "Serving Wire Center" denotes the wire center from which the customer designated premises would normally obtain dial tone from the Telephone Company.

Seven Digit Manual Test Line

The term "Seven Digit Manual Test Line" denotes an arrangement which allows the Customer to select balance, milliwatt and synchronous test lines by manually dialing a seven digit number over the associated access connection.

Shortage of Facilities or Equipment

The term "Shortage of Facilities or Equipment" denotes a condition which occurs when the Telephone Company does not have appropriate cable, switching capacity, bridging or, multiplexing equipment, etc., necessary to provide the Access Service requested by the customer.

Short Circuit Test Line

The term "Short Circuit Test Line" denotes an arrangement in an end office which provides for an ac short circuit termination of a trunk or line by means of a capacitor of at least four microfarads.

Effective Date: January 3, 1994

Authorized by PSCW Order _____ Letter January 3, 1994

ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Signal-to-C-Notched Noise Ratio

The term "Signal-to-C-Notched Noise Ratio" denotes the ratio in dB of a test signal to the corresponding C-Notched Noise.

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Signaling Point (SP)

The term "Signaling Point (SP)" denotes an SS7 network interface element capable of originating and terminating SS7 trunk signaling messages.

(N)

(N)

Signal Transfer Point (STP)

The term "Signal Transfer Point (STP)" denotes a packet switch which provides access to the Telephone Company's SS7 network and performs SS7 message signal routing and screening.

(N)

(N)

Singing Return Loss

The term "Singing Return Loss" denotes the frequency weighted measure of return loss at the edges of the voiceband (200 to 500 Hz and 2500 to 3200 Hz), where singing (instability) problems are most likely to occur.

Subtending End Office of an Access Tandem

The term "Subtending End Office of an Access Tandem" denotes an end office that has final trunk group routing through that tandem.

Synchronous Test Line

The Term "Synchronous Test Line" denotes an arrangement in an end office which performs marginal operational test of supervisory and ring-tripping functions.

Terminating Direction

The term "Terminating Direction" denotes the use of Access Service for the completion of calls from an IC or TP premises to an End User Premises.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Toll Provider

The term "Toll Provider" (TP) denotes any individual partnership, association, jointstock company, trust, government entity or corporation (who are authorized local exchange carriers), engaged for hire in Intrastate/Intralata communication by wire or radio between two or more exchanges.

Transmission Measuring (105 Type) Test Line/Responder

The term "Transmission Measuring (105 Type) Test Line/Responder" denotes an arrangement in an end office which provides far-end access to a responder and permits two-way loss and noise measurements to be made on trunks from a near end office.

Transmission Path

The term "Transmission Path" denotes an electrical path capable of transmitting signals within the range of the service offering, e.g., a voice grade transmission path is capable of transmitting voice frequencies within the approximate range of 300 to 3000 Hz. A transmission path is comprised of physical or derived facilities consisting of any form or configuration of plant typically used in the telecommunications industry.

Trunk

The term "Trunk" denotes a communications path connecting two switching systems in a network, used in the establishment of an end-to-end connection.

Trunk Group

The term "Trunk Group" denotes a set of trunks which are traffic engineered as a unit for the establishment of connections between switching systems in which all of the communications paths are interchangeable.

Trunk Side Connection

The term "Trunk Side Connection" denotes the connection of a transmission path to the trunk side of a local exchange switching system.

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ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Two-Wire to Four-Wire conversion

The term "Two-Wire to Four-Wire conversion" denotes an arrangement which converts a four-wire transmission path to a two-wire transmission path to allow a four-wire facility to terminate in a two-wire entity (e.g., a central office switch).

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V and H Coordinates Method

The term "V and H Coordinates Method" denotes a method of computing airline miles between two points by utilizing an established formula which is based on the vertical and horizontal coordinates of the two points.

WATS Serving Office

The term "WATS Serving Office" denotes a Telephone Company designated serving wire center where switching, screening and/or recording functions are performed in connection with the closed-end of WATS or WATS-type services.

Wire Center

The term "Wire Center" denotes a building in which one or more central offices, used for the provision of Telephone Exchange Services, are located.

Effective Date: January 3, 1994

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ACCESS SERVICE

3. Carrier Common Line Access Service

The Telephone Company will provide Carrier Common Line Access Service (Carrier Common Line Access) to customers in conjunction with Switched Access Service provided in Section 6. of this tariff or the appropriate Switched Access Service section of other Access Service Tariffs.

3.1 General Description

Carrier Common Line Access provides for the use of end users' Telephone Company provided common lines by customers for access to the end users to furnish Intrastate Communications. Premium Access is (1) Switched Access Service provided to customers under this tariff, (2) Switched Access Service in an end office converted to equal access, and (3) Switched Access Service provided to customers under this tariff which furnish MTS/WATS in an end office not yet converted to equal access..

Non premium Access is Switched Access Service provided in an end office not yet converted to equal access to customers that do not furnish intrastate MTS/WATS.

A Special Access Surcharge, as set forth in 17.3.1 following, will apply to intrastate special access service provided by the Telephone Company to a customer, in accordance with regulations as set forth in 7.3 following.

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(D)

Effective Date: January 1, 1996

Authorized by PSCW Order _____ Letter _____

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.2 Limitations

3.2.1 Exclusions

Neither a telephone number nor detail billing are provided with Carrier Common Line Access. Additionally, directory listings and intercept arrangements are not included in the rates and charges for Carrier Common Line Access.

3.2.2 Access Groups

All line side connections provided in the same access group will be limited to the same features and operating characteristics.

All trunk side connections provided in the same access group will be limited to the same features and operating characteristics.

3.2.3 WATS Access Lines

Where Switched Access Services are connected with Special Access Services at Telephone Company Designated WATS Serving Offices for the provision of WATS or WATS-type Services, Switched Access Service minutes which are carried on that end of the service (i.e., originating minutes for outward WATS and WATS-type services and terminating minutes for inward WATS and WATS-type services) shall not be assessed Carrier Common Line Access per minute charges with the following exception. Carrier Common Line Access per minute charges shall apply when Feature Group A or Feature Group B switched access is ordered from a non equal access telephone company office that does not have measurement capabilities and the assumed average access minutes, as set forth in the exchange carrier's access tariff are used.

Where WATS and/or WATS-type services are considered as part of Switched Access at the option of the Telephone Company, see 6.11 following for applicable rules and regulations.

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.3 Undertaking of the Telephone Company

3.3.1 Provision of Service

Where the customer is provided Switched Access Service under other sections of this or other Access Service tariffs, the Telephone Company will provide the use of Telephone Company common lines by a customer for access to end users at rates and charges as set forth in 17.1.1 following.

3.3.2 Intrastate and Interstate Use

The Switched Access Service provided by the Telephone Company includes the Switched Access Service provided for both intrastate and interstate communications. The Carrier Common Line Access rates and charges as set forth in 17.1.1 following apply to intrastate Switched Access Service access minutes in accordance with the rate regulations as set forth in 3.8.4 following (Percent Interstate Use - PIU).

3.4 Obligations of the Customer

3.4.1 Switched Access Service Requirement

The Switched Access Service associated with Carrier Common Line Access shall be ordered by the customer under other sections of this tariff.

3.4.2 Supervision

The customer facilities at the premises of the ordering customer shall provide the necessary on-hook and off-hook supervision.

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Determination of Usage Subject to Carrier Common Line Access Charges

Except as set forth herein, all Switched Access Service provided to the customer will be subject to Carrier Common Line Access charges.

3.5.1 Determination of Jurisdiction

When the customer reports intrastate and interstate use of Switched Access Service, the associated Carrier Common Line Access used by the customer for intrastate will be determined as set forth in 3.8.4 following (Percent Interstate Use - PIU).

3.5.2 Cases Involving Usage Recording By the Customer

Where Feature Group C end office switching is provided without Telephone Company recording and the customer records minutes of use used to determine Carrier Common Line Access charges (i.e., Feature Group C operator and calls such as pay telephone sent-paid, operator-DDD, operator-person, collect, credit-card, third number and/or other like calls), the customer shall furnish such minutes of use detail to the Telephone Company in a timely manner. If the customer does not furnish the data, the customer shall identify all Switched Access Services which could carry such calls in order for the Telephone Company to accumulate the minutes of use through the use of special Telephone Company measuring and recording equipment.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.5 Determination of Usage Subject to Carrier Common Line Access Charges (Cont'd)

3.5.3 Local Exchange Access and Enhanced Services Exemption

When access to the local exchange is required to provide a customer service (e.g., MTS/WATS-type, telex, Data, etc.) that uses a resold private line service, Switched Access Service Rates and Regulations, as set forth in Section 6. following will apply, except when such access to the local exchange is required for the provision of an enhanced service. Carrier Common Line Access rates and charges as set forth in 17.1.1 following apply in accordance with the resale rate regulations as set forth in 3.6.4 following.

3.6 Resold Services

Where the customer is reselling WATS and or WATS-type service and the Telephone Company options to treat WATS as switched access, see 6.11 following for applicable rules and regulations.

3.6.1 Scope

Where the customer is reselling MTS and/or MTS-type service(s) on which the Carrier Common Line and Switched Access charges have been assessed, the customer may, at the option of the customer, obtain Feature Group A, Feature Group B or Feature Group D Switched Access Service under this tariff as set forth in Section 6. following for originating and/or terminating access in the local exchange. Such access group arrangements whether single lines or trunks or multiline hunt groups or trunk groups will have Carrier Common Line Access charges applied as set forth in 17.1.1 following in accordance with the resale rate regulations set forth in 3.6.4 following. For purposes of administering this provision:

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.1 Scope (Cont'd)

Resold intrastate terminating MTS and MTS-type service(s) shall include collect calls, third number calls and credit card calls where the reseller pays the underlying carrier's service charges; and shall not include interstate minutes of use.

Resold intrastate originating MTS and MTS-type service(s) shall not include collect, third number, credit card or interstate minutes of use.

3.6.2 Customer Obligations Concerning the Resale of MTS and MTS-type Services

When the customer is reselling MTS and/or MTS-type service as set forth in 3.6.1 preceding, the customer will be charged Carrier Common Line Access charges in accordance with the resale rate regulations as set forth in 3.6.4 following if the customer or the provider of the MTS service furnishes documentation of the MTS usage and/or the customer furnishes documentation of the MTS-type usage. Such documentation supplied by the customer shall be supplied each month and shall identify the involved resold MTS and/or MTS-type services.

The monthly period used to determine the minutes of use for resold MTS and/or MTS-type service(s) shall be the most recent monthly period for which the customer has received a bill for such resold service(s). This information shall be delivered to the Telephone Company, at a location specified by the Telephone Company, no later than 15 days after the bill date shown on the resold MTS and/or MTS-type service bill. If the required information is not received by the Telephone Company, the previously reported information, as described preceding, will be used for the next two months. For any subsequent month, no allocation or credit will be made until the required documentation is delivered to the Telephone Company by the customer.

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.3 Resale Documentation Provided By the Customer

When the customer utilizes Switched Access Service as set forth in 3.6.2 preceding, the Telephone Company may request a certified copy of the customer's resold MTS or MTS-type usage billing from either the customer or the provider of the MTS or MTS-type Service. Requests for billing will relate back no more than 12 months prior to the current billing period.

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-Type Services

When the customer is provided an access group to be used in conjunction with the resale of MTS and/or MTS-type services as set forth in 3.6.1 preceding, subject to the limitations as set forth in 3.2 preceding, and the billing entity receives the usage information required as set forth in 3.6.2 preceding, to calculate the adjustment of Carrier Common Line Access charges, the customer will be billed as set forth in (D), (E) or (F) following, depending upon, respectively, whether the usage is from non equal access offices, equal access offices or a combination of the two.

(A) Apportionment and Adjustment of Resold Minutes of Use

When the customer is provided with more than one access group in a LATA in association with the resale of MTS and/or MTS-type services, the resold minutes of use will be apportioned as follows:

(1) Originating Services

The Telephone Company will apportion the resold originating MTS and/or MTS-type services and originating minutes of use for which the resale credit adjustment applies, among the access groups. Such apportionment will be based on the relationship of the originating usage for each access group to the total originating usage for all access groups in the LATA. For purposes of administering this provision:

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-Type Services (Cont'd)

(A) Apportionment and Adjustment of Resold Minutes of Use (Cont'd)

(1) Originating Services (Cont'd)

Resold originating MTS and/or MTS-type services minutes shall be only those attributable to intrastate originating MTS and/or MTS-type minutes and shall not include collect, third number, credit card or interstate minutes of use.

The resale credit adjustment shall apply for resold originating MTS and/or MTS-type services and minutes of use, provided Carrier Common line and Switched Access Charges have been assessed on such services.

(2) Terminating Services

The Telephone Company will apportion the resold terminating MTS and/or MTS-type services and terminating minutes of use for which the resale credit adjustment applies, among the access groups. Such apportionment will be based on the relationship of the terminating usage for each access group to the total terminating usage for all access groups in the LATA. For purposes of offering this provision:

Resold terminating MTS and/or MTS-type services minutes shall be only those attributable to intrastate terminating MTS/MTS-type (i.e., collect calls, third number calls, and credit card calls) and shall not include interstate minutes of use or MTS/MTS-type minutes of use paid for by another party.

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-Type Services (Cont'd)

(A) Apportionment and Adjustment of Resold Minutes of Use (Cont'd)

(2) Terminating Services (Cont'd)

The resale credit adjustment shall apply for resold terminating MTS and MTS-type services and minutes of use, provided Carrier Common Line and Switched Access Charges have been assessed on such services.

(B) Same State/Telephone Company/Exchange Limitation

In order for the rate regulations to apply as set forth in (D), (E) or (F) following, the access groups and the resold MTS and/or MTS-type services must be provided in the same state (except when the same extended area service arrangement is provided in two different states by the same telephone company) in the same exchange, provided by the same Telephone Company and connected directly or indirectly. For those exchanges that encompass more than one state, the customer shall report the information by state within the exchange.

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-Type Services (Cont'd)

(C) Direct and Indirect Connections

Each of the access group arrangements used by the customer in association with the resold MTS and/or MTS-type services must be connected either directly or indirectly to the customer designated premises at which the resold MTS and/or MTS-type services are terminated. Direct connections are those arrangements where the access groups and resold MTS and/or MTS-type services are terminated at the same customer designated premises.

Indirect originating connections are those arrangements where the access groups and the resold originating MTS and/or MTS-type services are physically located at different customer designated premises in the same exchange. Such different customer designated premises are connected by facilities that permit a call to flow from access groups to resold MTS and/or MTS-type services.

Indirect terminating connections are those arrangements where the access groups and resold terminating MTS and/or MTS-type services are physically located at different customer designated premises in the same exchange. Such different customer designated premises are connected by facilities that permit a call to flow from resold terminating MTS and/or MTS-type services to access groups.

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-Type Services (Cont'd)

(D) Access Groups - Non Equal Access Offices Only

The adjustments as set forth here and in (E) and (F) following will be computed separately for each access group.

When all the intrastate interlata usage on an access group originates from and/or terminates at end offices that have not been converted to equal access the Non Premium Access Charge per minute as set forth in 17.1.1 following will apply. The Access Minutes which will be subject to Carrier Common Line Access charges will be the adjusted originating intrastate interlata access minutes plus the adjusted terminating intrastate interlata access minutes for such access groups.

The adjusted originating access minutes will be the originating intrastate access minutes less the reported resold originating MTS and/or MTS-type service minutes of use as set forth (A)(1) preceding; but not less than zero. The adjusted terminating access minutes will be the terminating intrastate access minutes less the reported resold terminating MTS and/or MTS-type service minutes of use as set forth in (A)(2) preceding; but not less than zero.

Intrastate intralata access minutes will be subject to the Premium Access Charge per minute as set forth in 17.1.1 following. The development of the access minutes for intrastate intralata usage (originating and terminating) will be as previously stated above.

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-Type Services (Cont'd)

(E) Access Groups - Equal Access Offices Only

When all the usage on an access group originates from and/or terminates at end offices that have been converted to equal access the Premium Access Charge per minute as set forth in 17.1.1 following will apply. The minutes billed Carrier Common Line Access Service charges will be the adjusted originating intrastate access minutes and the adjusted terminating intrastate access minutes for such access groups.

The adjusted originating access minutes will be the originating intrastate access minutes less the reported resold originating MTS and/or MTS-type service minutes of use as set forth in (A)(1) preceding; but not less than zero. The adjusted terminating access minutes will be the terminating intrastate access minutes less the reported resold terminating MTS and/or MTS-type service minutes of use as set forth in (A)(2) preceding; but not less than zero.

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-Type Services (Cont'd)

(F) Access Groups - Non-Equal Access and Equal Access Offices

When an access group has usage that originates from and/or terminates at both end offices that have been converted to equal access and end offices that have not been converted, both premium and non premium per minute charges as set forth in 17.1.1 following will apply respectively. The minutes billed Carrier Common Line Access Service charges will be the adjusted originating intrastate access minutes plus the adjusted terminating intrastate access minutes for such access groups.

The adjusted originating access minutes will be the originating intrastate access minutes less the reported resold originating MTS and/or MTS-type service minutes of use as set forth in (A)(1) preceding; but not less than zero. The adjusted terminating access minutes will be the terminating intrastate access minutes less the reported resold terminating MTS and/or MTS-type service minutes of use as set forth in (A)(2) preceding; but not less than zero.

The adjusted intrastate interlata originating access minutes and the adjusted intrastate interlata terminating access minutes will be apportioned between premium and non premium access minutes using end-office specific usage data when available, or when usage data are not available, the premium and non premium ratios developed as set forth in 6.4.1(C)(4) following. The Premium and Non Premium per minute charges set forth in 17.1.1 following will apply to the respective intrastate interlata premium and non premium access minutes determined in this manner. The Premium per minute charge set forth in 17.1.1 following, will apply to intrastate intralata access minutes.

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.6 Resold Services (Cont'd)

3.6.4 Rate Regulations Concerning the Resale of MTS and MTS-Type Services (Cont'd)

(G) When the Adjustment Will Be Applied to Customer Bills

The adjustment as set forth in (D), (E) and (F) preceding will be made to the involved customer account no later than either the next bill date, or the one subsequent to that, depending on when the usage report is obtained.

(H) Conversion of Billed Usage to Minutes

When the MTS and/or MTS-type usage is shown in hours, the number of hours shall be multiplied by 60 to develop the associated MTS and/or MTS-type minutes of use. If the MTS and/or MTS-type usage is shown in a unit that does not show hours or minutes, the customer shall provide a factor to convert the shown units to minutes.

(I) Percent Intrastate Use

The adjustment as set forth in (D), (E) and (F) preceding will be made to the involved customer account after making the adjustments to the customer account as set forth in 3.8.4 following.

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

(D)

(D)

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

(D)

(D)

Effective Date: April 15, 1997

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

(D)

(D)

Effective Date: April 15, 1997

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

(D)

(D)

Effective Date: April 15, 1997

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.8 Rate Regulations

3.8.1 Billing of Charges

Carrier Common Line charges will be billed to each Switched Access Service provided under this tariff in accordance with the regulations as set forth in 3.8.5 following (Determination of Premium and Non-Premium Charges) except as set forth in 3.6.4 preceding (Resale) and 3.8.4 following.

3.8.2 Measuring and Recording of Call Detail

When access minutes are used to determine Carrier Common Line charges, they will be accumulated using call detail recorded by Telephone Company equipment except as set forth in 3.8.3 following (Unmeasured FGA and B Usage) and Feature Group C operator and automated operator services systems call detail such as pay telephone sent-paid, operator-DDD, operator-person, collect, credit-card, third number and/or other like calls recorded by the customer. The Telephone Company measuring and recording equipment, except as set forth in 3.8.3 following (Unmeasured FGA and B Usage), will be associated with end office or local tandem switching equipment and will record each originating and terminating access minute where answer supervision is received. The accumulated access minutes will be summed on a line by line basis, by line group or by end office, whichever type of account is used by the Telephone Company, for each customer and then rounded to the nearest minute.

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.8 Rate Regulations (Cont'd)

3.8.3 Unmeasured Feature Group A and B Usage

When Carrier Common Line Access is provided in association with Feature Group A or Feature Group B Switched Access Service in Telephone company offices that are not equipped for measurement capabilities, an assumed average intrastate access minutes will be used to determine Carrier Common Line Access charges. These assumed access minutes are as set forth in the exchange carriers' access tariff.

3.8.4 Percent Intrastate

When the customer reports intrastate and interstate use of in-service Switched Access Service, Carrier Common Line charges will be billed only to intrastate Switched Access Service access minutes based on the data reported by the customer as set forth in 2.3.11 preceding (Jurisdictional Reports), except where the Telephone Company is billing according to actuals by jurisdiction. Intrastate Switched Access Service access minutes will, after adjustment as set forth in 3.6.4 preceding (Resale), when necessary, be used to determine Carrier Common Line Charges as set forth in 3.8.5 following.

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.8 Rate Regulations (Cont'd)

3.8.5 Determination of Premium and Non-Premium Charges

After the adjustments as set forth in 3.6.4 and 3.8.4 preceding have been applied, when necessary, to Switched Access Service access minutes, charges for the involved customer account will be determined as follows:

- (A) Access minutes for all premium rated Switched Access Service subject to Carrier Common Line charges will be multiplied by the Premium Access per minute rate as set forth in 17.1.1 following.
- (B) Access minutes for all interlata non-premium rates Switched Access Service subject to Carrier Common Line charges will be multiplied by the Non-Premium Access per minute rate as set forth in 17.1.1 following.
- (C) Held For Future Use
- (D) Carrier Common Line charges shall not be reduced as set forth in 3.6.1 preceding unless Switched Access Charges, as set forth in Section 6. following, are applied to the customer's Switched Access Services.
- (E) Terminating Premium access or Non-Premium Access, per minute charge(s) apply to:
 - all terminating access minutes of use;
 - all originating access minutes of use associated with interlata FGA Access Services where the off-hook supervisory signaling is forwarded by the customer's equipment when the called party answers;

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.8 Rate Regulations (Cont'd)

3.8.5 Determination of Premium and Non-Premium Charges (Cont'd)

(E) (Cont'd)

- all originating access minutes of use associated with calls placed to 700, 800 series and 900 numbers, less those originating access minutes of use associated with calls placed to 700, 800 series and 900 numbers for which the customer furnishes for each month a report of either the number of calls or minutes or a report of the percent of calls or minutes that terminate in a Switched Access Service that is assessed Carrier Common Line charges. (C)

When the customer makes this report available to the Telephone Company in advance of billing, these minutes of use will be charged on the current bill as originating minutes of use as set forth in (F) following. If a billing dispute arises concerning the customer provided report, the Telephone Company will request the customer to provide the data the customer used to develop the report. The Telephone Company will not request such data more than once a year. The customer shall supply the data within 30 days of the Telephone Company request.

When this report is not available to the Telephone Company until after billing, it shall be used by the Telephone Company to calculate and post a credit to the customer's account. The credit shall be posted to the customer's account within 30 days of receipt of the report. The credit shall be calculated by multiplying the number of access minutes of use, for which a credit is determined to be applicable, times the difference between the terminating and originating Carrier Common Line charges in effect when the calls were completed.

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ACCESS SERVICE

3. Carrier Common Line Access Service (Cont'd)

3.8 Rate Regulations (Cont'd)

3.8.5 Determination of Premium and Non-Premium Charges (Cont'd)

(F) The originating Premium Access or Non-Premium Access, per minute charge(s) apply to:

- all originating access minutes of use;
- less those originating access minutes of use associated with interlata FGA Access Services where the off-hook supervisory signaling is forwarded by the customer's equipment when the called party answers;
- less all originating access minutes of use associated with calls placed to 700, 800 and 900 numbers;
- plus all originating access minutes of use associated with calls placed to 700, 800 series and 900 numbers for which the customer furnishes for each month a report of either the number of calls or minutes or a report of the percent of calls or minutes that terminate in a Switched Access Service that is assessed Carrier Common Line charges, and for which a corresponding reduction in the number of terminating access minutes of use has been made as set forth in (E) preceding. (C)

Effective Date: _____

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WISCONSIN STATE TELEPHONE ASSOCIATION
INTRASTATE ACCESS CHARGE TARIFF

INTRASTATE ACCESS TARIFF No. 1
Section 4
Original Page 1
Amendment No. 6

ACCESS SERVICE

4. Held For Future Use

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

5. Access Ordering

5.1 General

This section sets forth the regulations and order related charges for services set forth in other sections of this tariff. Order related charges are in addition to other applicable charges for the services provided.

An Access Order is an order to provide the customer with Switched and Special Access or Access Related Service or to provide changes to existing services.

The regulations, rates and charges for special construction are set forth in section 9 following and are in addition to the regulations, rates and charges specified in this section.

A customer may order any number of services of the same type and between the same premises on a single Access Order. All details for services for a particular order must be identical except for those for multipoint service.

The customer shall provide to the Telephone Company the order information required in 5.2 following, and in addition the customer must also provide:

- Customer name and premises address(es).
- Billing name and address (when different from customer name and address).
- Customer contact name(s) and telephone number(s) for the following provisioning activities: order negotiation, order confirmation, interactive design, installation and billing.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.1 Service Installation

The Telephone Company will provide the Access Service in accordance with the customer's requested service date, subject to the constraints established by the Telephone Company schedule of applicable service dates.

The Telephone Company shall make available to all customers, upon request, a schedule of applicable service intervals for Switched and Special Access Services. The schedule shall specify the applicable service interval for services and the quantities of services that can be provided by a requested service date. Any associated material will be provided upon request and within a reasonable period of time.

The Telephone Company will not accept orders for service dates which exceed the applicable service date by more than six months.

Access Services will be installed during Telephone Company business days. If a customer requests that installation be done outside of scheduled work hours, and the Telephone Company agrees to this request, the customer will be subject to applicable Additional Labor Charges as set forth in 17.4.3(A) following.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.2 Expedited Orders

When placing an Access Order, a customer may request a service date that is prior to the applicable service date. Additionally, a customer may also request an earlier service date on a pending Access Order. In this case, an access order modification as set forth in 5.4 following would be required. If the Telephone Company determines that the service can be provided on the requested date and that additional labor cost or extraordinary costs are required to meet the requested service date, the customer will be notified and will be provided with an estimate of the additional charges involved. Charges will be billed at actual cost, not to exceed 10 percent over estimated charges. Such additional charges will be determined and billed to the customer as explained following.

To calculate the additional labor charges, the Telephone Company will, upon authorization from the customer to incur the additional labor charges, keep track of the additional labor hours used to meet the request of the customer and will bill the customer at the applicable Additional Labor charges as set forth in 17.4.3(A) following.

To develop, determine and bill the customer the extraordinary costs which may be involved, the Special Construction terms and conditions as set forth in Section 10 following will be used by the Telephone Company. Authorization to incur the costs and to bill the customer will be in accordance with the terms and conditions of Section 10.

When the request for expediting occurs subsequent to the issuance of the Access Order, a Service Date Change Charge as set forth in 17.4.1(A) following also applies.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.1 General (Cont'd)

5.1.3 Selection of Facilities for Access Orders

The option to request a specific transmission path or channel is not provided except for High Capacity Facilities Special Access, or as provided for under Special Facilities Routing as set forth in Section 11. following.

When there are High Capacity facilities to a hub on order on in service for the customer's use, the customer may request a specific channel or transmission path be used to provide the Switched or Special Access Service requested in an Access Order. The Telephone Company will make a reasonable effort to accommodate the customer request.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements

5.2.1 Switched Access Service

(A) Feature Group A

Orders for Feature Group A Switched Access Service shall be in lines.

When placing an order for Feature Group A Switched Access Service, the customer shall provide the following information in addition to that set forth in 5.1 preceding:

- The number of lines and the first point of switching (i.e., Dial Tone Office)
- Optional Features
- Whether the Off-hook Supervisory Signaling is provided by the customer's equipment before the called party answers, or is forwarded by the customer's equipment when the called party answers
- Lines to be provided as single lines
- Lines to be arranged in multiline hunt group arrangements
- Directionality (1-way, 2-way, etc.)
- A projected percentage of intrastate use as set forth in 2.3.11 preceding
- The Interexchange Carrier to which the service is connected or, in the alternative, specify the means by which the FGA access communications are transported.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(B) Feature Group B

Orders for Feature Group B Switched Access Service shall be in trunks.

When placing an order for Feature Group B Switched Access Service, the customer shall provide the following information in addition to that set forth in 5.1 preceding:

- The number of trunks
- The end office, except when FGB is provided through a centralized equal access arrangement, when direct routing is desired.
- The access tandem office when tandem routing is desired
- Optional Features
 - Trunks to be provided as single trunks
 - Trunks to be arranged in trunk group arrangements
 - Directionality (1-way, 2-way, etc.)
 - A projected percentage of intrastate use as set forth in 2.3.11 preceding.
 - The Interexchange Carrier to which the service is connected or, in the alternative, specify the means by which the FGB access communications are transported to another LATA.
 - The access code dialing arrangement (i.e., a uniform access code of 950-1XXX or 950-0XXX or an Abbreviated Dialing Arrangement (ADA) access code of N or NX).

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

- (C) Feature Group C, Feature Group D and Interim NXX
Translation Service and SS7 Signaling

(C)

When placing an order for Feature Group C and D
Switched Access Service, the customer shall provide:

- The number of BHMC from the customer designated
premises to the end office by Feature Group and by
type of BHMC, or
- For customers other than AT&T, the number of trunks
desired between customer designated premises and an
entry switch.
- The number of BHMC or trunks (for customers other
than providers of MTS or WATS) required for or to
be converted to an SS7 Signaling capability.
- Optional Features
- Interim NXX Translation options.

(N)
|
(N)

When BHMC information is provided it is used to
determine the number of transmission paths as set
forth in 6.2.5 following.

The BHMC may be determined by the customer in the
following manner. For each day (8 am to 11 pm,
Monday through Friday, excluding national holidays),
the customer shall determine the highest number of
minutes of use for a single hour (e.g., 55 minutes
in the 10-11 AM hour). The customer shall, for the
same hour period (i.e., busy hour) for each of twenty
consecutive business days, pick the twenty
consecutive business days in a calendar year which
add up to the largest number of minutes of use. Both
originating and terminating minutes shall be
included. The customer shall then determine the
average busy hour minutes of capacity (i.e., BHMC) by
dividing the largest number of minutes of use figure
for the same hour period for the consecutive twenty
business day period by 20. This computation shall be
performed for each end office the customer wishes to
serve. These determinations thus establish the
forecasted BHMC for each end office.

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ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(C) Feature Group C, Feature Group D and Interim NXX
Translation Service and SS7 Signaling (Cont'd)

(C)

Customers other than MTS/WATS providers may, at their option, order FGD by specifying the number of trunks desired between customer designated premises and an end office or access tandem. When ordering by trunk quantities rather than BHMC quantities to an access tandem, the customer must also provide the Telephone Company an estimate of the amount of traffic it will generate to and/or from each end office subtending the access tandem to assist the Telephone Company in its own efforts to project further facility requirements.

When Feature Group C or D is ordered with the Interim NXX Translation optional feature, the customer shall specify the Service Access Code(s) (e.g., 800 or 900) and their associated NXX code(s) to be translated within the entire LATA. The initial and subsequent orders to add, change, or delete Interim NXX Translation codes shall be placed separately on in combination with orders to change Feature Group C or D Switched Access BHMC or trunks. Customer assigned NXX codes which have not been ordered will be blocked. Orders for the Interim NXX Translation optional feature shall not be required until such time as a customer other than an MTS/WATS provider requests Interim NXX Translation of Service Access Codes. Upon receipt of such order, the Telephone Company shall notify the MTS/WATS provider of the activation of the Interim NXX Translation Service for the Service Access Code. Following such initial activation, all customers are required to place orders for Interim NXX Translation of the Service Access Code and the Interim NXX Translation charge for the Service Access Code shall apply as set forth in 17.2.1(C) following.

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ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.1 Switched Access Service (Cont'd)

(D) SS7 Optional Feature

When Feature Group C or D is ordered with the SS7 optional feature, in addition to information listed in 5.2.1(C) preceding, the customer shall specify a reference to existing signaling connections or reference a related SS7 signaling connection order. When ordering SS7 signaling, the customer shall provide the Signaling Transfer Point codes, location identifier codes and circuit identifier codes. In addition, the customer shall work cooperatively with the Telephone Company to determine the number of SS7 signaling connections required to handle its signaling traffic.

For 800 Data Base Access Service, as described in 6.1.3(A) & (C) following, the customer must order FGC or FGD to those access tandems or end offices designated as Service Switching Points (SSP) for 800 Data base service in WSTA Tariff #1. Direct trunk routes can only be provided from end offices equipped to query centralized data bases. All traffic originating from end offices not equipped to provide SS7 signalling and routing require routing via an access tandem where SSP functionality is available.

(N)

(N)

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ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.2 Special Access Service

When placing an order for Special Access Service the customer must specify:

- the customer designated premises or hubs involved
- type of service (e.g., Voice Grade, High Capacity, etc.)
- the channel interface(s)
- technical specification package
- options desired
- for multipoint services, the channel interface at each customer designated premises may, at the request of the customer, be different but all such interfaces shall be compatible.
- that the traffic consists of ten percent or less interstate traffic. (N)
(N)

All part-time Video and Program Audio services are subject to a service inquiry. A service inquiry is a request to the Telephone Company to determine if facilities exist to provide the service ordered and to determine the service date on which service can be provided to the customer.

Where the Special Access Service is exempt from the Special Access Surcharge, as set forth in 7.3 following the customer shall furnish written certification to that effect as set forth in 7.3.3 following.

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5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.3 WATS or WATS-Type Services

For those telephone companies which choose to treat WATS Access Lines as Special Access, Special Access Service may be ordered for connection with FGA, FGB, FGC or FGD Switched Access Service Telephone Company designated WATS Service Offices (WSOs) for the provision of WATS or WATS-type Services and may be ordered separately by a customer other than the customer which orders the FGA, FGB, FGC or FGD Switched Access Service. For the Special Access Service the customer shall specify:

- the customer designated premises at which the Special Access service terminates
- the type of line (i.e., two-wire or four-wire)
- the type of calling (i.e., originating, terminating or two-way)
- type of Supervisory Signaling.

When the optional screening, switching and/or recording functions are not provided at the customer serving wire center, channel mileage, as set forth in 7.2.1 following, must be ordered between that wire center and the nearest WSO where the screening, switching and/or recording functions can be provided.

For the provision of WATS and/or WATS-type Services where the Telephone Company has optioned to treat WATS as a Switched Access Service, see 5.2.1 preceeding and 6.11 following for applicable rules and regulations.

5.2.4 Mixed Use Facilities - Switched and Special Access

Mixed use is the provision of both Switched and Special Access Services over the same High Capacity facilities. Mixed use facilities to a hub will be ordered and provided as Special Access Service. Where mixed use is employed, individual services utilizing these facilities must be ordered either as Switched Access Service or Special Access Service as further elaborated and set forth in 6.4.7 and 7.2.7 following. When placing the order for the individual service(s), the customer must specify a channel assignment for each service ordered.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.2 Ordering Requirements (Cont'd)

5.2.5 Miscellaneous Services

Testing Service, Additional Labor, Telecommunications (T)
Service Priority and Special Facilities Routing (T)
shall be ordered with an Access Order or may subsequently
be added to a pending order at any time up to and including
the service date for the access service. When miscellaneous
services are added to a pending order a service date change
may be required. When a service date change is required, the
service date change charge as set forth in 17.4.1(A) following
will apply. When miscellaneous services are added to a pending
order, charges for a design change as set forth in 17.4.1(C)
following will apply when an engineering review is required.
If both a service date change and an engineering review are
required, both the Service Date Change Charge and the Design
Change Charge will apply as set forth in 5.4.3(B) following.

The rates and charges for these services, as set forth in
Section 17. of this tariff, will apply in addition to the
ordering charges set forth in Section 17. and the rates
and charges for the Access Service with which they are
associated.

Additional Engineering is not an ordering option, but will
be applied to an Access Order when the Telephone Company
determines that Additional Engineering is necessary to
accommodate a customer request. Additional Engineering
will only be required as set forth in 13.1 following.
When it is required, the customer will be so notified and
will be furnished with a written statement setting forth
the justification for the Additional Engineering as well
as an estimate of the charges. If the customer agrees to
the Additional Engineering, a firm order will be
established. If the customer does not want the service or
facilities after being notified that Additional
Engineering of Telephone Company facilities is required,
the order will be withdrawn and no charges will apply.
Once a firm order has been established, the total charge
to the customer for the Additional Engineering may not
exceed the estimated amount by more than 10%.

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ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company

Access Services provided by more than one Telephone Company are services where one end of the Local Transport, Interexchange Transport or Channel Mileage element is in the operating territory of one Telephone Company and the other end of the element is in the operating territory of a different Telephone Company or where the Interim NXX Translation service and the end office are not provided by the same Telephone Company.

The ordering procedure for this service is dependent upon the billing arrangement, as set forth in 2.4.7 preceding, to be used by the Telephone Companies involved in providing the Access Service. The Telephone Company will notify the customer which of the ordering procedures will apply.

5.3.1 Non Meet Point Billing Ordering - FGA

(C)

(A) Single Company Billing Ordering

The Telephone Company receiving the order from the customer will arrange to provide the service and bill the customer as set forth in 2.4.7(A)(1) preceding. The customer will place the order with the Telephone Company as follows:

For FGA Switched Access Service the customer will place the order with the Telephone Company in whose territory the first point of switching is located. The first point of switching is the dial tone office.

(C)

(C)

(D)

(D)

When the first point of switching is not in the same Telephone Company's territory as the Interexchange Carrier premises, the customer must supply a copy of the order to the Telephone Company in whose territory the Interexchange Carrier premises is located and any other Telephone Company(s) involved in providing the service.

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ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.1 Non Meet Point Billing Ordering-FGA (Cont'd)

(A) Single Company Billing Ordering (Cont'd)

(2) For Special Access Services without the use of a hub, the customer will place the order with the Telephone Company in whose territory the customer designated premises is located.

(3) For Special Access Services with a hub, the customer will place the order with the Telephone Company(s) in whose territory the hub(s) is located.

(B) Primary Exchange Carrier/Secondary Exchange Carrier Billing Ordering

(T)

When FGA is ordered in a multi-Telephone Company provided Extended Area Service area,

(D)

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(D)

the customer must provide a copy of the order to all Secondary Exchange Carriers identified as billing Secondary Exchange Carriers in Section 16 following. Each Exchange Carrier will bill as set forth in 2.4.7(A)(1)(b) preceding.

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ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.2 Meet Point Billing Ordering

Each Telephone Company will provide its portion of the Access Service within its operating territory to an interconnection point(s) (IP) with the other Telephone Company(s). Billing Percentages will be determined by the Telephone Companies involved in providing the Access Service and listed in WISCONSIN ACCESS CHARGE TARIFF P.S.C. NO. 2. Each Telephone Company will bill the customer for its portion of the service as set forth in 2.4.7(A)(2) preceding. All other appropriate charges in each Telephone Company tariff are applicable.

For the service(s) ordered as set forth following, the customer must also supply a copy of the order to the Telephone Company in whose operating territory a customer designated premises is located and any other Telephone Company(s) involved in providing the service.

- (A) For Feature Group A and B Switched Access Services, the customer must place an order with the Telephone Company in whose territory the first point of switching is located, (i.e., FGA - dial tone office, FGB - access tandem or end office).
- (B) For Feature Group C and D Switched Access Services, the customer must place an order with the Telephone Company in whose territory the end office is located. Customers other than MTS/WATS providers may, at their option, order FGD to the access tandem. When ordered to the access tandem, and the access tandem and the end office are not in the same Telephone Company operating territory, the customer must also supply a copy of the order to each additional Telephone Company subtending the access tandem.

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ACCESS SERVICE

5. Access Ordering (Cont'd)

5.3 Access Orders For Services Provided By More Than One Telephone Company (Cont'd)

5.3.2 Meet Point Billing Ordering (Cont'd)

- (C) Customers ordering Special Access Service to be interconnected with Switched Access Services at Telephone Company designated WATS Serving Offices for the provision of WATS or WATS-type Services must place an order with each Telephone Company in whose territory the end office and the WATS Serving Office are located, if they are not collocated. If the Telephone Company has optioned to treat WATS as a Switched Access Service, see 5.3.2(A) and 5.3.2(B) preceding.
- (D) Except for Special Access Service as set forth in (C) above or as set forth in (E) below, the customer may place the order for a Special Access Service with either Exchange Telephone Company.
- (E) For Special Access Service involving a hub(s) the customer must place the order with the Telephone Company(s) in whose territory the hub(s) is located.
- (F) For initiation, additions, changes or deletions to the Interim NXX Translation code(s), the customer must place an order with the Telephone Company who provides the Interim NXX Translation. The customer must also provide a copy of the order to the Telephone Companies subtending the Interim NXX Translation office.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.4 Charges Associated with Access Ordering

5.4.1 Access Order Charge

The Access Order Charge is applied to all customer requests for new Special and Switched Access Service. In addition, the Access Order Charge is applicable to customer requests for additions, changes or rearrangements to existing Special and Switched Access Service with the following exceptions:

The Access Order Charge does not apply:

- When a Service Date Change Charge is applicable.
- When a Design Change Charge is applicable.
- To administrative changes as set forth in 6.4.1(B)(3) and 7.2.2(C)(3) following.
- When a change to a pending order does not result in the cancellation of the pending order and the issuance of a new order.
- When Interim NXX Translation is ordered.
- When a Miscellaneous Service Order Charge is applicable.
- When an Intrastate Interlata Presubscription Charge is applicable.
- When a Telephone Company initiated network reconfiguration requires a customer's existing access service to be reconfigured.

The Access Order Charge will be applied on a per order basis to each order received by the Telephone Company or copy of an order received by the Telephone Company pursuant to 5.3.1 and 5.3.2 preceding except by the Telephone Company applying the interim NXX Translation charge, and is in addition to other applicable charges as set forth in this and other sections of this tariff.

The Access Order Charge will be applied on a per order basis for any change, rearrangement or addition to the delivery of signaling to an existing STP Port.

(N)
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(N)

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ACCESS SERVICE

5. Access Ordering (Cont'd)

5.4 Charges Associated with Access Ordering (Cont'd)

5.4.2 Miscellaneous Service Order Charge

A Miscellaneous Service Order Charge, as set forth in 17.4.1(D) following, applies to any service, or combination of services ordered simultaneously from Section 13. of the Tariff for which a service order is not already pending (with the exception of Intrastate Interlata Presubscription (13.4) which does not have the charge applied). The Miscellaneous Service Order Charge is an administrative charge designed to compensate for the expenses associated with service order issuance.

The charge always applies to the following services since a pending service order would not exist:

- Overtime Repair (13.2.2),
- Standby Repair (13.2.3),
- Testing and Maintenance with Other Telephone Companies other than when in conjunction with Acceptance Testing (13.2.4),
- Other Labor (13.2.5),
- Maintenance of Service (13.3.2).

The Miscellaneous Service Order Charge will also apply to the following services if they are ordered subsequent to the initial installation of the associated access service, thereby necessitating the issuance of another service order:

- Telecommunications Service Priority (13.3.3), (C)
- Controller Arrangement [13.3.4(A)].

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ACCESS SERVICE

5. Access Ordering (Cont'd)

5.4 Charges Associated with Access Ordering (Cont'd)

5.4.2 Miscellaneous Service Order Charge

The charge does not apply to the following services since there would exist a pending service order:

- Additional Engineering (13.1),
- Overtime Installation (13.2.1),
- Standby Acceptance Testing (13.2.3),
- Testing and Maintenance with Other Telephone Companies when in conjunction with Acceptance Testing (13.2.4),
- Additional Cooperative Acceptance Testing [13.3.1(A)(1) and 13.3.1(B)(1)].

5.4.3 Access Order Change Charges

Access Order changes involve service date changes and design changes. The customer may request a change of its Access Order prior to the service date. The Telephone Company will make every effort to accommodate a requested change when it is able to do so with the normal work force assigned to complete such an order within normal business hours. If the change cannot be made with the normal work force during normal business hours, the Telephone Company will notify the customer. If the customer still desires the Access Order change, the Telephone Company will schedule a new service date as set forth in 5.1.2 preceding. All charges for Access Order change as set forth in 17.4.1(B) and (C) will apply on a per occurrence basis.

Any increase in the number of Special Access Service channels or Switched Access Service lines, trunks or busy hour minutes of capacity or CCS/SS7 Port Terminations will be treated as a new Access Order (for the increased amount only).

(C)

If order changes are necessary to satisfy the transmission performance for a Special Access Service ordered by a customer, these changes will be made without order change charges being incurred by the customer.

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ACCESS SERVICE

5. Access Ordering (Cont'd)

5.4 Charges Associated with Access Ordering (Cont'd)

5.4.3 Access Order Change Charges (Cont'd)

(A) Service Date Change

The customer may request a change of service date on a pending Access Order prior to the service date. A change of service date is a change of the scheduled service date by the customer to either an earlier date or a later date which does not exceed 30 calendar days from the original service date.

If the Telephone Company determines that the customer's request can be accommodated without delaying the service dates for orders of other customers, the service date will be changed and the Service Date Change Charge, as set forth in 17.4.1(B) following, will be applied to the order.

If the service date is changed to an earlier date, and the Telephone Company determines additional labor or extraordinary costs are necessary to meet the earlier service date requested by the customer, the customer will be notified by the Telephone Company that Expedited Order Charges as set forth in 5.1.2 preceding apply. Such charges will apply in addition to the Service Date Change Charge.

If the requested service date exceeds 30 calendar days following the original service date, and the Telephone Company determines that the customer's request can be accommodated, the Telephone Company will cancel the original order and apply the Cancellation Charges as set forth in 5.6.3 following. A new Access Order with a new service date will be issued. The Service Date Change Charge will not apply, however, the Access Order Charge will apply to the new order.

If the service date is changed due to a design change as set forth in (B) following, the Service Date Change Charge will apply.

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ACCESS SERVICE

5. Access Ordering (Cont'd)

5.4 Charges Associated with Access Ordering (Cont'd)

5.4.3 Access Order Change Charges (Cont'd)

(B) Design Change

The customer may request a design change to the service ordered prior to the requested service date. A design change is any change to an Access Order which requires engineering review. An engineering review is a review by Telephone Company personnel, of the service ordered and the requested changes to determine what changes in the design, if any, are necessary to meet the changes requested by the customer. Design changes include such things as the addition or deletion of optional features or functions or a change in the type of Transport Termination (Switched Access only), type of channel interface, type of Interface Group or technical specification package. Design changes do not include a change of customer designated premises, first point of switching, Feature Group type or Special Access Service channel type. Changes of this nature will require the issuance of a new order and the cancellation of the original order with appropriate cancellation charges applied.

The Telephone Company will review the requested change, notify the customer whether the change is a design change, if the change can be accommodated and if a new service date is required. If the customer authorizes the Telephone Company to proceed with the design change, a Design Change Charge as set forth in 17.4.1(C) following will apply in addition to the charge for Additional Engineering as set forth in 17.4.2 following. If a change of service date is required, the Service Date Change Charge as set forth in 17.4.1(B) following will also apply. The Access Order Charge as specified in 17.4.1 following does not apply.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.5 Minimum Periods and Cancellation

5.5.1 Minimum Periods

The minimum period for part-time Video and Program Audio Special Access Services is one day even though the service will be provided only for the duration of the event specified on the order (e.g., one-half hour, two hours, five hours, etc.).

Switched Access Service has no minimum period. The minimum period for which all other Access Service is provided and for which charges are applicable, is one month.

5.5.2 Development of Minimum Period Charges

When Access Service is disconnected after commencement of service but prior to the expiration of the minimum period, charges are applicable for the balance of the minimum period. A disconnect constitutes facilities being returned to available inventory.

The Minimum Period Charge for monthly billed services will be determined as follows:

- (A) For Switched Access Service, the charge for a month or fraction thereof is equal to the applicable recurring charges plus any nonrecurring and/or special construction charge(s) that may be due.
- (B) For Special Access Service, the charge for a month or fraction thereof is the applicable monthly rates for the appropriate channel type plus any optional features, nonrecurring and/or special construction charge(s) that may apply.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.5 Minimum Periods and Cancellation (Cont'd)

5.5.2 Development of Minimum Period Charges (Cont'd)

The Minimum Period Charge for part-time Video and Program Audio Services is the applicable daily rate for the appropriate channel type as set forth in 7.2.4 following.

5.5.3 Cancellation of an Access Order

(A) A customer may cancel an Access Order for the installation of service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days. If a customer or a customer's end user is unable to accept Access Service within 30 calendar days after the original service date, the customer has the choice of the following options:

- The Access Order shall be cancelled and charges set forth in (B) following will apply or,
- Billing for the service will commence.

In such instances, The cancellation date or the billing date, depending on which option is selected by the customer, shall be the 31st day beyond the original service date of the Access Order.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.5 Minimum Periods and Cancellation (Cont'd)

5.5.3 Cancellation of an Access Order (Cont'd)

- (B) When a customer cancels an Access Order for the installation of service, a Cancellation Charge will apply as follows:
- (1) Installation of Switched or Special Access Service facilities is considered to have started when the Telephone Company incurs any cost in connection therewith or in preparation thereof which would not otherwise have been incurred.
 - (2) Where the customer cancels an Access Order prior to the start of installation of access facilities, no charges shall apply.
 - (3) Where installation of access facilities has been started prior to the cancellation, the charges specified in (a) or (b) following, whichever is lower, shall apply.
 - (a) A charge equal to the costs incurred in such installation, less estimated net salvage. Such costs include the nonrecoverable cost of equipment and material ordered, provided or used, plus the nonrecoverable cost of installation and removal including the costs of engineering, labor, supervision, transportation, rights-of-way and other associated costs;
 - (b) The charge for the minimum period of Switched or Special Access Service ordered by the customer.
- (C) When a customer cancels an order for the discontinuance of service, no charges apply for the cancellation.

ACCESS SERVICE

5. Access Ordering (Cont'd)

5.5 Minimum Period and Cancellation (Cont'd)

5.5.3 Cancellation of an Access Order (Cont'd)

- (D) If the Telephone Company misses a service date by more than 30 days and such delay is not requested or caused by the customer (excluding those circumstances where the date is missed due to acts of God, governmental requirements, work stoppages and civil commotions), the customer may cancel the Access Order without incurring cancellation charges.

5.5.4 Partial Cancellation Charge

Any decrease in the number of ordered Special Access Service channels or Switched Access Service lines, trunks or busy hour minutes of capacity or CCS/SS7 Port Terminations will be treated as a partial cancellation and charges will be determined as set forth in 5.5.3(B) preceding (C)

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ACCESS SERVICE

6. Switched Access Service

6.1 General

Switched Access Service, which is available to customers for their use in furnishing their services to end users, provides a two-point communications path between a customer designated premises and an end user's premises. It provides for the use of common terminating, switching, and trunking facilities and for the use of common subscriber plant of the Telephone Company. Switched Access Service provides for the ability to originate calls from an end user's premises to a customer designated premises, and to terminate calls from a customer designated premises to an end user's premises in the LATA where it is provided. Specific references to material describing the elements of Switched Access Service are provided in 6.1.3 and 6.5 through 6.8, and as applicable, 6.11 following.

Rates and charges for Switched Access Service depend generally on the specific Feature Group ordered by the customer, e.g., for MTS or WATS services or MTS/WATS equivalent services, and whether it is provided in a Telephone Company end office that is equipped to provide equal or non equal access. Rates and charges for Switched Access Service are set forth in 17.2 following. The application of rates for Switched Access Service is described in 6.4 following. Rates and charges for services other than Switched Access Service, e.g., a customer's interLATA toll message service, may also be applicable when Switched Access Service is used in conjunction with these other services. Descriptions of such applicability are provided in 6.4.5, 6.4.9, 6.5.1(H), 6.5.3, 6.6.1(G), 6.6.2(D), 6.7.1(F) and 6.8.1(E) following. Finally, a credit is applied against line side Switched Access Service charges as described in 6.4.8 following.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Description and Provision of Switched Access Service Arrangements

(A) Description

Switched Access Service is provided in four different Feature Group arrangements which are service categories of standard and optional features. These are differentiated by their technical characteristics, e.g., line side vs. trunk side connection at the Telephone Company first point of switching. They are also differentiated by optional feature availability and the manner in which the end user accesses them in originating calling, e.g., with or without access codes of various lengths and digits.

The provision of each Feature Group requires Transport facilities and the appropriate End Office functions. In addition, Special Access Service may, at the option of the customer, be connected with Feature Groups A, B, C, or D at Telephone Company designated WATS Serving Offices.*

There are three specific transmission specifications (i.e., Types A, B and C) that have been identified for the provision of Feature Groups. The specifications provided are dependent on the Interface Group and the routing of the service, i.e., whether the service is routed directly to the end office or via an access tandem. The parameters for the transmission specifications are set forth in 15.1.2 following.

* References to WATS in conjunction with Special Access Service, Section 7 following, apply if the Telephone Company has optioned to treat WATS access as part of Special Access Services. Otherwise, WATS will be treated as Switched Access Service, as set forth in 6.11 following.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Description and Provision of Switched Access Service Arrangements (Cont'd)

(A) Description (Cont'd)

Feature Groups are arranged for either originating, terminating or two-way calling, based on the customer end office switching capacity ordered. Originating calling permits the delivery of calls from Telephone Exchange Service locations to the customer designated premises. Terminating calling permits the delivery of calls from the customer designated premises to Telephone Exchange Service locations. Two-way calling permits the delivery of calls in both directions, but not simultaneously. The Telephone Company will determine the type of calling to be provided unless the customer requests that a different type of directional calling is to be provided. In such cases, the Telephone Company will work cooperatively with the customer to determine the directionality.

There are various optional features associated with Transport, Common Switching and Transport Termination available with the Feature Groups. In addition, the Interim NXX Translation optional feature is available with Feature Group C and Feature Group D.

Detailed descriptions of each of the available Feature Groups are set forth in 6.5 through 6.8 following. Each Feature Group is described in terms of its specific physical characteristics and calling capabilities, the optional features available for use with it and the standard testing capabilities.

The Common Switching and Transport Termination optional features, which are described in 6.10 following, unless specifically stated otherwise, are available at all Telephone Company end office switches.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Description and Provision of Switched Access Service Arrangements (Cont'd)

(B) Manner of Provision

Switched Access is furnished in either quantities of lines or trunks, or in busy hour minutes of capacity (BHMCs). FGA Access and FGB Access are furnished on a per-line or per-trunk basis respectively. FGC Access and FGD Access are furnished on a BHMC basis. FGD may also be provided to customers other than MTS/WATS providers on a per-trunk basis as set forth in 5.2 preceding.

BHMCs are differentiated by type and directionality of traffic carried over a Switched Access Service arrangement. Differentiation of traffic among BHMC types is necessary for the Telephone Company to properly design Switched Access Service to meet the traffic carrying capacity requirement of the customer.

There are two major BHMC categories identified as: Originating and Terminating. Originating BHMCs represent access capacity within a LATA for carrying traffic from the end user to the customer; Terminating BHMCs represents access capacity with a LATA for carrying traffic from the customer to the end user. When ordering capacity for FGC Access or FGD Access, the customer must at a minimum specify such access capacity in terms of Originating BHMCs and/or Terminating BHMCs.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Description and Provision of Switched Access Service Arrangements
(Cont'd)

(B) Manner of Provision (Cont'd)

Because some customers will wish to further segregate their originating traffic into separate trunk groups, or because segregation may be required by network considerations originating BHCs are further categorized into Domestic, 700, 800 series, 900, Operator and IDDD. (C)
Domestic BHCs represent access capacity for carrying only domestic traffic other than 700, 800 series, 900 and Operator traffic; IDDD BHCs represent access capacity for carrying only international traffic; and, 700, 800 series, 900 and Operator BHCs represent access capacity for carrying, respectively, only 700, 800 series, 900 or Operator traffic. When ordering such types of access capacity, the customer must specify Domestic, 700, 800 series, 900, Operator or IDDD BHCs. (C)

6.1.2 Ordering Options and Conditions

Switched Access Service is ordered under the Access Order provisions set forth in 5.2 preceding. Also, included in that section are regulations concerning miscellaneous service order charges which may be associated with Switched Access Service ordering (e.g., Service Date Changes, Cancellations, etc.).

6.1.3 Rate Categories

There are four rate categories which apply to Switched Access Service:

- Transport (described in 6.1.3(A) following)
- End Office (described in 6.1.3(B) following)
- Chargeable Optional Features (described in 6.1.3(C) following)
- Common Line (described in Section 3. preceding)

Effective Date: _____

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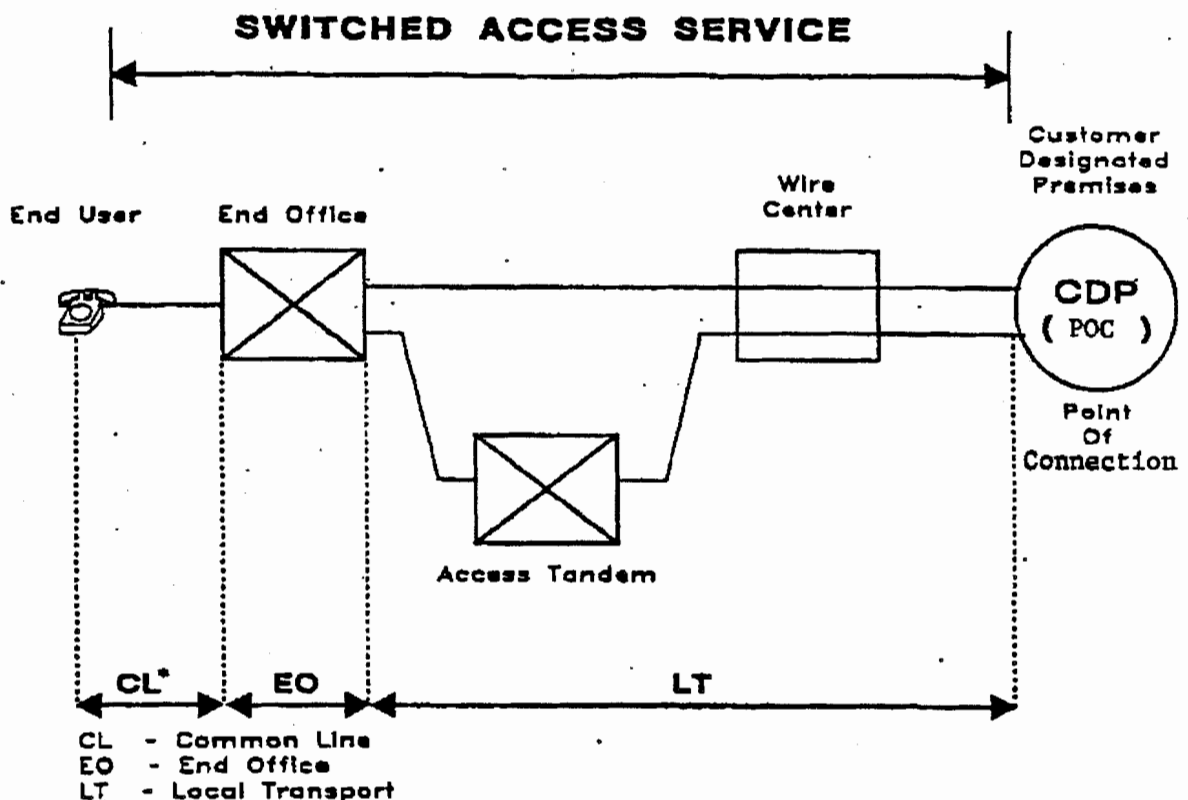
ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

The following diagram depicts a generic view of the components of Switched Access Service and the manner in which the components are combined to provide a complete Access Service.



* Common Line Access Service is provided under Section 3. Preceding.

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ACCESS SERVICE

-6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Transport

(1) Local Transport

The Local Transport rate category establishes the charges related to the transmission between the Point of Connection (POC) and the end office switch(es) where the customer's traffic is switched to originate or terminate the customer's communications. For purposes of determining Local Transport Facility measurement, distance will be measured from the POC to the end office switch(es), which may be a Remote Switching Module(s). Exceptions to the Local Transport Facility measurement rules are set forth in 6.4.6 following and in this section.

Local Transport is a two-way voice frequency transmission path composed of facilities determined by the Telephone Company. The two-way voice frequency transmission path permits the transport of calls in the originating direction (from the end user end office switch to the POC) and in the terminating direction (from the POC to the end office switch), but not simultaneously. The voice frequency transmission path may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

The Telephone Company will work cooperatively with the customer in determining (1) whether the service is to be directly routed to an end office switch or through an access tandem switch, and (2) the directionality of the service.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Transport (Cont'd)

(1) Local Transport (Cont'd)

Local Transport rates are made-up of a Local Transport Termination rate which is assessed on a per transmission path per access minute basis, and a Local Transport Facility rate assessed on a per mile per access minute basis. The Local Transport Termination rate provides for the communications frequency transmission path at the Telephone Company switching office and includes the Local Transport portion of Central Office Switching and Central Office Circuit equipment (e.g., signaling, transmission devices, padding, carrier channels, etc.). The Local Transport Termination rate is applied as follows:

- for FGA when the Local Transport Facility is measured between the end office and the first point of switching (i.e., dial tone office) as set forth in 6.4.6(C)(2) following, or between the end office and the IC which is the access tandem, the Local Transport Termination rate is applied at the end office.
- for FGA when the Local Transport Facility is measured between the first point of switching (i.e., dial tone office) and the IC serving wire center as set forth in 6.4.6(C) following, the Local Transport Termination Rate is applied at the first point of switching (i.e., dial tone office). (N)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Transport (Cont'd)

(1) Local Transport (Cont'd)

- for FGB, FGC and FGD, when the Local Transport Facility is measured between the end office and the POC, the Local Transport Termination Rate is applied at the end office. (C)

- for FGB and FGD when the Local Transport Facility is measured between the access tandem and the IC serving wire center, as set forth in 6.4.6(G) following, the Local Transport Termination Rate is applied at the access tandem office. (C)

For Feature Groups A, B, C and D Switched Access Service connected with Special Access Service at a WATS Serving Office, the Local Transport Facility is measured between the WATS Serving Office (when measured access minutes of use are used) and the serving wire center for the customer designated premises is as set forth in 6.4.6(F) following, the Local Transport Termination is applied at the WATS Serving Office. (C) (T)

For Feature Group A Switched Access Service Connected with Special Access Service at a WATS Serving Office when the Local Transport Facility is measured between the Feature Group A entry switch (when assumed access minutes of use are used) and the serving wire center for the customer designated premises, as set forth in 6.4.6(F) following, the Local Transport Termination is applied at the Feature Group A entry switch. (C) (C)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Transport (Cont'd)

(1) Local Transport (Cont'd)

The Local Transport Termination rate will also apply if the IC serving wire center and the end user serving wire center are collocated. The Local Transport Termination rate will apply once to each Switched Access Service. The Local Transport Facility rate provides for the frequency transmission path and for that portion of Local Transport which extends beyond the Telephone Company end office and includes both the physical (or derived) outside plant facilities and necessary transmission equipment (repeaters, etc.) including that which may be found at intermediate offices. The Local Transport Facility rate will not apply if the IC serving wire center and the end user serving wire center are collocated.

Notwithstanding the preceding paragraph, when more than one Telephone Company is involved in providing the Switched Access Service, the Local Transport rates are applied as set forth in 2.4.7 preceding.

Local Transport is provided at the rates and charges set forth in 17.2.2 following. The application of these rates with respect to individual Feature Groups is as set forth in 6.4.1(C) following.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Transport (Cont'd)

(1) Local Transport (Cont'd)

(a) Interface Groups

Ten Interface Groups are provided for terminating the Local Transport at the customer's designated premises. Technical specifications concerning the available interface groups are set forth in 15.1 following.

(b) Nonchargeable Optional Features

Where transmission facilities permit, the individual transmission path between the customer's designated premises and the first point of switching may at the option of the customer be provided with the following optional features as set forth and described in 15.1.1(E) following.

- Supervisory Signaling
- Customer Specified Entry Switch receive Level
- Customer Specification of Local Transport Termination

When a customer subscribes to Common Channel Signaling (SS7) Network Connection Service (CCSNC Service), the following optional features are made available and are described in 6.10.1 following.

- Signaling System 7 (SS7) Signaling
- Calling Party Number
- Carrier Selection Parameter
- Charge Number Parameter

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Transport (Cont'd)

(1) Local Transport (Cont'd)

(c) Chargeable Optional Features

Common Channel Signaling, Signaling System 7 (CCS/SS7) Network Connection (CCSNC) Service provides a signaling path between a customer's designated Signaling Point of Interface (SPOI) and a Telephone Company's Signaling Transfer Point (STP). CCSNC is provided as set forth in 6.10.5 following.

800 Data Base Access Service is provided to all customers in conjunction with FGC and FGD switched access service. A Basic or Vertical Feature Query charge, as set forth in 17.2.2 (B) following, is assessed for each query launched to the 800 data base. The Basic Query provides the identification of the customer to whom the call will be delivered and includes area of service routing which allows routing of 800 series calls by telephone companies to different interexchange carriers based on the Local Access Transport Area (LATA) in which the call originates. The Vertical Feature Query provides this same customer identification function in addition to vertical features which may include: (1) call validation (ensuring that calls originate from subscribed service areas); (2) POTS translation of 800 series numbers (which is generally necessary for the routing of 800 series calls); (3) alternate POTS translation (which allows subscribers to vary the routing of 800 series calls based on factors such as time of day, place of origination of the call, etc.); and (4) multiple carrier routing (which allows subscribers to route to different carriers based on factors similar to those in (3)).

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ACCESS SERVICE

6. Held For Future Use

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ACCESS SERVICE

6. Held For Future Use

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) End Office

The End Office rate category establishes the charges related to the local end office switching and end user termination functions necessary to complete the transmission of Switched Access communications to and from the end users served by the local end office. The End Office rate category includes the Local Switching and Information Surcharge rate elements.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(1) Local Switching

The Local Switching rate elements establishes the charges related to the use of end office switching equipment, the terminations in the end office of end user lines, and the terminations of calls at Telephone Company Intercept Operators or recordings. The premium charge is divided into two distinct categories, i.e., Local Switching 1, and Local Switching 2. The first category, Local Switching 1, is applicable to Feature Groups A and B. Local Switching 1 does not apply to:

- Feature Group B when utilized to provide MTS/WATS service,
- Feature Groups A and B used for terminating inward WATS and WATS-type service at an equal access WATS Serving Office.

The second category, Local Switching 2, is applicable to:

- Feature Groups C and D,
- FGB when utilized to provide MTS/WATS service,

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6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(1) Local Switching (Cont'd)

- Feature Groups A and B used for terminating inward WATS and WATS-type service at an equal access WATS Serving Office.

Rates for Local Switching 1 and Local Switching 2, are set forth in 17.2.3 following. The application of these rates with respect to individual Feature Groups is as set forth in 6.4.1(C) following.

There are four types of functions included in the Local Switching rate elements: Common Switching, Transport Termination, Line Termination and Intercept. These are described in (a) through (d) following.

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6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(1) Local Switching (Cont'd)

(a) Common Switching

Common Switching provides the local end office switching functions associated with the various access (i.e., Feature Group) switching arrangements. The Common Switching arrangements provided for the various Feature Group arrangements are described in 6.5 through 6.8 following.

Included as part of Common Switching are various nonchargeable optional features which the customer can order to meet the customer's specific communications requirements. These optional features are described in 6.10.1 following.

(b) Transport Termination

Transport Termination functions provide for the line or trunk side arrangements which terminate the Transport facilities. Included as part of these functions are various nonchargeable optional termination arrangements. These optional terminating arrangements are described in 6.10.2 following.

The number of Transport Terminations provided will be determined by the Telephone Company as set forth in 6.2.5 following.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(1) Local Switching (Cont'd)

(c) Line Termination

Line Termination provides for the terminations of end user lines in the local end office. There are two types of Line Terminations, i.e., Common Line Terminations and Special Access Service Terminations utilized in the provision of WATS or WATS-type services at Telephone Company designated WATS Serving Offices.

The above Special Access Service Terminations are differentiated by line side vs. trunk side terminations. In addition, there are various types of originating and terminating line side terminations depending on the type of signaling associated with the Special Access Service. Line side terminations are available with either dial pulse or dual tone multifrequency address signaling.

See 6.11, WATS Access Lines, for treatment of WATS Access lines as a Switched Access Service.

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6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(1) Local Switching (Cont'd)

(d) Intercept

The Intercept function provides for the termination of a call at a Telephone Company Intercept operator or recording. The operator or recording tells a caller why a call, as dialed, could not be completed, and if possible, provides the correct number.

(2) Information Surcharge

Information Surcharge rates are assessed to a customer based on the total number of access minutes. Information Surcharge rates are as set forth in 17.2.3(B) following. The number of end office switching transmission paths will be determined as set forth in 6.2.5 following.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(C) Chargeable Optional Features

Where facilities permit, the Telephone Company will, at the option of the customer, provide the following chargeable optional features.

(1) Interim NXX Translation

The Interim NXX Translation rate element provides for customer identification of calls are directed by end users of the 1+SAC+NXX-XXXX (e.g., 1+800+NXX-XXXX) format. The NXX codes are assigned to specific customers in conformance with the North American Numbering Plan (NANP). NXX code assignment(s) will be made by the Bellcore NANP Coordinator. The Telephone Company will use the NXX code to identify the customer to whose point of termination the traffic is to be delivered, (i.e., at appropriately equipped electronic end offices, access tandems or through contracted arrangements with other parties.) It is then the responsibility of the customer to do any further translation the customer deems necessary to route the call. Customer assigned NXX codes which have not been ordered will be blocked.

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6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(C) Chargeable Optional Features (Cont'd)

(1) Interim NXX Translation (Cont'd)

A nonrecurring charge, as set forth in 17.2.1 following, is associated with this optional feature. This nonrecurring charge is assessed by the Telephone Company on a per order, per LATA or Market Area basis and is applied in lieu of the Access Order Charge specified in 17.4.1(A) following. The nonrecurring charge is assessed only by the Telephone Company that provides the final translation function. A Telephone Company is said to have provided the final Interim NXX Translation when its translation identifies the customer's traffic and this traffic is then delivered to the customer's point of termination without any further translation. The description and application of this charge with respect to Feature Group C and Feature Group D is as set forth in 6.4.1(B)(2) and 6.4.1(C) following.

(2) 800 Data Base Access Service

800 Data Base Access Service is provided to all customers in conjunction with FGC and FGD switched access service. When a 1+800series+NXX-XXXX call is originated by an end user, the Telephone Company will utilize the Signaling System 7 (SS7) network to query an 800 data base to identify the customer to whom the call will be delivered and provide vertical features based on the dialed ten digits. The call will then be routed to the identified customer over FGC or FGD switched access. The 800 series includes the following service access codes: 800, 888, 877, 866, 855, 844, 833 and 822.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(C) Chargeable Optional Features (Cont'd)

(2) 800 Data Base Access Service(Cont'd)

A Basic or Vertical Feature Query charge, as set forth in 17.2.2(B) following, is assessed for each query launched to the data base which identifies the customer to whom the call will be delivered. The Basic Query provides the identification of the customer to whom the call will be delivered and includes area of service routing which allows routing of 800 series calls by telephone companies to different interexchange carriers based on the Local Access Transport Area (LATA) in which the call originates. The Vertical Feature Query provides the same customer identification as the basic query and vertical features which may include: (1) call validation, (ensuring that calls originate from subscribed service areas); (2) POTS translation of 800 series numbers; (3) alternate POTS translation (which allows subscribers to vary the routing of 800 series calls based on factors such as time of day, place or origination of the call, etc.); and (4) multiple carrier routing (which allows subscribers to route to different carriers based on factors similar to those in (3)).

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The description and application of this charge with respect to Feature Group C or Feature Group D is as set forth in 6.4.1(C)(8) and 6.4.1(C) following.

6.1.4 Special Facilities Routing

Any customer may request that the facilities used to provide Switched Access Service be specially routed. The regulations for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are set forth in Section 11. following.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.5 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the makeup of the facilities and services provided from the customer's premises to the first point of switching. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Undertaking of the Telephone Company

In addition to the obligations of the Telephone Company set forth in Section 2. preceding, the Telephone Company has certain other obligations concerning only the provision of Switched Access Service. These obligations are as follows:

6.2.1 Network Management

The Telephone Company will administer its network to insure the provision of acceptable service levels to all telecommunications users of the Telephone Company's network services. Generally, service levels are considered acceptable only when both end users and customers are able to establish connections with little or no delay encountered within the Telephone Company network. The Telephone Company maintains the right to apply protective controls, i.e., those actions, such as call gapping, which selectively cancel the completion of traffic, over any traffic carried over its network, including that associated with a customer's Switched Access Service. Generally, such protective measures would only be taken as a result of occurrences such as failure or overload of Telephone Company or customer facilities, natural disasters, mass calling or national security demands. In the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer, the customer will be granted a Credit Allowance for Service Interruption as set forth in 2.4.4(B)(3) preceding.

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6. Switched Access Service (Cont'd)

6.2 Undertaking of the Telephone Company (Cont'd)

6.2.2 Transmission Specifications

Each Switched Access Service transmission path is provided with standard transmission specifications. There are three different standard specifications (Types A, B and C). The standard for a particular transmission path is dependent on the Feature Group, the Interface Group and whether the service is directly routed or via an access tandem. The available transmission specifications are set forth in 15.1.2 following. Data Transmission Parameters are also provided with each Switched Access Service transmission path. The Telephone Company will, upon notification by the customer that the data parameters set forth in 15.1.3 following are not being met, conduct tests independently or in cooperation with the customer, and take any necessary action to insure that the data parameters are met.

The Telephone Company will maintain existing transmission specifications on functioning service configurations installed prior to May 25, 1984, except that service configurations having performance specifications exceeding the standards set forth in 15.1.2 following will be maintained at the performance levels specified.

The transmission specifications concerning Switched Access Service are limits which, when exceeded, may require the immediate corrective action of the Telephone Company. The transmission specifications are set forth in 15.1.2 following. Acceptance limits are set forth in Technical Reference TR-NPL-000334. This Technical Reference also provides the basis for determining Switched Access Service maintenance limits.

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Undertaking of the Telephone Company (Cont'd)

6.2.3 Provision of Service Performance Data

Subject to availability, end-to-end service performance data available to the Telephone Company through its own service evaluation routines, may also be made available to the customer based on previously arranged intervals and format. These data provide information on overall end-to-end call completion and non-completion performance, e.g., customer equipment blockage, failure results and transmission performance. These data do not include service performance data which are provided under other tariff sections, e.g., testing service results. If data are to be provided in other than paper format, the charges for such exchange will be determined on an individual case basis.

6.2.4 Testing

(A) Acceptance Testing

At no additional charge the Telephone Company will, at the customer's request, cooperatively test at the time of installation, the following parameters: loss, C-notched noise, C-message noise, 3-tone slope, d.c. continuity and operational signaling. When the Transport is provided with Interface Groups 2 through 10, and the Transport Termination is two-wire (i.e., there is a four-wire to two-wire conversion in Transport), balance parameters (equal level echo path loss) may also be tested.

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Undertaking of the Telephone Company (Cont'd)

6.2.4 Testing (Cont'd)

(B) Routine Testing

At no additional charge, the Telephone Company will, at the customer's request, test after installation on an automatic or manual basis, 1004 Hz loss, C-message noise and Balance (Return loss).

In the case of automatic testing, the customer shall provide remote office test lines and 105 test lines with associated responders or their functional equivalent.

The frequency of these tests will be that which is mutually agreed upon by the customer and the Telephone Company, but shall consist of not less than quarterly 1004 Hz loss and C-message noise tests and an annual Balance test. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

Additional tests may be ordered as set forth in 13.3.1 following. Charges for these additional tests are set forth in 17.4.4 following.

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Undertaking of the Telephone Company (Cont'd)

6.2.5 Determination of Number of Transmission Paths

For Feature Groups A and B, which are ordered on a per line or per trunk basis respectively, and Feature Group D when ordered on a per trunk basis by customers other than MTS/WATS providers, the customer specifies the number of transmission paths in the order for service.

The Telephone Company will determine the number of Switched Access Service transmission paths to be provided for the Switched Access Feature Group C and D busy hour minutes of capacity ordered. The number of transmission paths will be developed using the total busy hour minutes of capacity by type (as described in 6.1.1(B) preceding) for the end offices for each Feature Group ordered from a customer's designated premises. The total busy hour minutes of capacity by type (e.g., originating, terminating, IDDD, Operator) for the end office will be converted to transmission paths using standard Telephone Company traffic engineering methods. The number of transmission paths provided shall be the number required based on (1) the use of access tandem switches and end office switches, (2) the use of the end office switches only, or (3) the use of the tandem switches only.

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Undertaking of the Telephone Company (Cont'd)

6.2.6 Trunk Group Measurement Reports

Subject to availability, the Telephone Company will make available trunk group data in the form of usage in CCS, peg count and overflow, to the customer based on previously agreed to intervals.

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Obligations of the Customer

In addition to the obligations of the customer set forth in Section 2. preceding, the customer has certain specific obligations pertaining to the use of Switched Access Service. These obligations are as follows:

6.3.1 Report Requirements

Customers are responsible for providing the following reports to the Telephone Company, when applicable.

(A) Jurisdictional Reports

When a customer orders Switched Access Service for both intrastate and interstate use, the customer is responsible for providing reports as set forth in 2.3.11 preceding. Charges will be apportioned in accordance with those reports. The method to be used for determining the intrastate charges is set forth in 2.3.12 preceding.

(B) Code Screening Reports

When a customer orders service class routing, trunk access limitation or call gapping arrangements, it must report the number of trunks and/or the appropriate codes to be instituted in each end office or access tandem switch, for each of the arrangements ordered.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.3 Obligations of the Customer (Cont'd)

6.3.2 Trunk Group Measurement Reports

With the agreement of the customer, trunk group data in the form of usage in CCS, peg count and overflow for its end of all access trunk groups, where technologically feasible, will be made available to the Telephone Company. These data will be used to monitor trunk group utilization and service performance and will be based on previously arranged intervals and format.

6.3.3 Supervisory Signaling

The customer's facilities shall provide the necessary on-hook, off-hook, answer and disconnect supervision.

6.3.4 Short Duration Mass Calling Requirements

When a customer offers service for which a substantial call volume is expected during a short period of time (e.g., 900 service media stimulated events), the customer must notify the Telephone Company at least 48 hours in advance of each peak period. Notification should include the nature, time, duration, and frequency of the event, an estimated call volume, and the telephone number(s) to be used.

On the basis of the information provided, the Telephone Company may invoke network management controls, (e.g., call gapping and code blocking) to reduce the probability of excessive network congestion. The Telephone Company will work cooperatively with the customer to determine the appropriate level of such control.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Switched Access Service.

6.4.1 Description and Application of Rates and Charges

There are two types of rates and charges that apply to Switched Access Service. These are usage rates and nonrecurring charges. These rates and charges are applied differently to the various rate elements as set forth in (C) following.

(A) Usage Rates

Usage rates for Switched Access Service are rates that apply on a per access minute basis when a specific rate element is used except for Network Blocking which is applied on a per call blocked basis beyond the blocking threshold. Access minute charges and network blocking charges are accumulated over a monthly period.

(B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Switched Access Service are: installation of service, Interim NXX Translation optional feature and service rearrangements. These charges, with the exception of the Interim NXX Translation optional feature, are in addition to the Access Order Charge as specified in 17.4.1(A) following.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(1) Installation of Service

Nonrecurring charges apply to each Switched Access Service installed. For FGA, which is ordered on a per line basis, and for FGB, FGC and FGD, which is ordered on a per trunk basis, the charge is applied on a per line or trunk basis respectively. For FGC and FGD, which are ordered on a busy hour minutes of capacity basis, the charge is also applied on a per trunk basis but the charge applies only when the capacity ordered requires the installation or activation of an additional trunk(s) which is uniquely identified for the sole use of the ordering customer.

(2) Interim NXX Translation Optional Feature

This nonrecurring charge applies to the initial order for the installation of the Interim NXX Translation optional feature with Feature Group C or Feature Group D Switched Access Service and for each subsequent order received to add or change NXX translation codes. This charge, if applicable, applies whether this optional feature is installed coincident with or at any time subsequent to the installation of Switched Access Services. This charge is applied by the Telephone Company per order, per LATA or Market Area. When it is necessary for multiple telephone companies to provide the translation function, the nonrecurring charge is assessed only by the Telephone Company that provides the final translation function which identifies the customer's traffic and this traffic is then delivered to the customer's point of termination without any further translation.

Effective Date: January 1, 1990

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements

All changes to existing services other than changes involving administrative activities and the off-hook supervisory signaling of FGA Access Services, will be treated as a discontinuance of the existing service and an installation of a new service. The nonrecurring charge described in (1) preceding will apply for this work activity. Moves that change the physical location of the point of termination are described and charged for as set forth in 6.4.4 following.

- If, due to technical limitations of the Telephone Company, a customer could not combine its Interim NXX traffic with its other trunk side Switched Access Services, no charge shall apply to combine these trunk groups when it becomes technically possible.

Effective Date: January 1, 1990

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

Administrative changes will be made without charge(s) to the customer. Administrative changes are as follows:

- Change of customer name,
- Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,
- Change in billing date (name, address, or contact name or telephone number),
- Change of agency authorization,
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of jurisdiction.

Changes and additions to existing Switched Access Services which are necessary due to Telephone Company initiated network reconfigurations, and required to provide the same grade of service to the customer that existed prior to the reconfiguration, will be made without charge to the customer. Charges will apply to those changes and additions which are in excess of those required to provide the same grade of service and/or capacity. Grade of service will be as determined by industry standard engineering tables. Changes to the

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

point in time when the off-hook supervisory signal is provided in the originating call sequence i.e., when the off-hook supervisory signal is changed from being provided by the customer's equipment before the called party answers to being forwarded by the customer's equipment when the called party answers or vice versa, are subject to the Access Order Charge as set forth in 17.4.1(A) following.

For additions, changes or modifications to an optional feature which has a separate nonrecurring charge, that nonrecurring charge will apply.

For additions, changes, or modifications to optional features that do not have their own separate nonrecurring charges, an Access Order Charge as set forth in 17.4.1(A) following will apply. When an optional feature is not required on each transmission path, but rather for an entire transmission path group, an end office or an access tandem switch, only one such charge will apply (i.e., it will not apply per transmission path).

For conversion of FGC and FGD trunks from multifrequency address signaling to SS7 signaling or from SS7 signaling to multifrequency address signaling, nonrecurring charges will apply as set forth in 17.2.1(D).

(N)
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(N)

(C) Application of Rates

Rates are applied either as premium rates or non-premium rates. Non-premium rates are discounted access minute rates for measured or assumed access minutes.

Effective Date: January 3, 1994

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

The specific application of these rates for a specific customer is dependent upon the Feature Group, the availability of equal access capabilities in the end office to which the service is provided.

(M)
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(M)

The following rules provide the basis for applying the rates and charges:

(1) Premium Rates

Premium rates apply to all FGC access minutes when the service is provided to customers which furnish intrastate MTS/WATS, and to all access minutes that originate or terminate at end offices equipped with equal access (i.e., FGD) capabilities. In addition, premium rates apply to FGB access minutes when utilized in the provision of MTS/WATS service.

(2) Non-premium Rates

Non-premium rates (i.e., discounted access minute rates) apply to all FGA and FGB access minutes (measured or assumed) originating or terminating in an end office which is not equipped with equal access capabilities.

In addition, non-premium rates apply to FGC access minutes originating in an end office which is not equipped with equal access capabilities when the FGC service is used in conjunction with the Interim NXX Translation optional feature or 800 Data Base services, by customers who do not furnish MTS/WATS.

(C)
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(C)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(3) Held for Future Use

(4) Transition Billing Arrangement

When FGA, or FGB Switched Access Service, except as set forth in (1) preceding, provided to an entry switch (i.e., dial tone office for FGA and access tandem for FGB) has usage originating from and/or terminating at both end offices that have been converted to equal access and end offices that have not been converted, the premium and non-premium rates will apply in the following manner:

(a) All access minutes that originate from or terminate at the equal access end office(s) will be billed at premium rates: Interlata access minutes that originate from or terminate at end offices not equipped with equal access capabilities, hereinafter referred to as non-premium access minutes, will continue to be billed at non-premium rates. Non-premium rates will apply as follows depending on the type of service.

(i) For FGA and FGB services, the number of interlata non-premium access minutes to be billed at non-premium rates is derived by subtracting the number of premium interlata rated access minutes from the total number of interlata access minutes.

(ii) Premium access minutes will be determined as set forth in (b) following.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(4) Transition Billing Arrangement (Cont'd)

(b) The number of access minutes to be rated as premium access minutes is determined as follows:

(i) Where end office specific usage data is available, premium rates apply to the measured access minutes originating from or terminating at the equal access end office(s).

(ii) Where end office specific usage data is not available for originating and/or terminating FGA or FGB, the total originating and/or terminating usage will be measured or assumed usage at the entry switch as set forth respectively in 6.5.4 and 6.6.4 following. Originating and/or terminating usage will then be apportioned between premium and non-premium access minutes.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(4) Transition Billing Arrangement (Cont'd)

(b) (Cont'd)

(ii) (Cont'd)

Such apportionment will be based on the ratio of the number of subscriber lines in the access area (i.e., local calling areas for FGA originating minutes, LATA for FGA terminating minutes and end offices subtending the access tandem for FGB minutes) of the first point of switching that are served by equal access end offices to the total number of subscriber lines in that access area. The ratio thus developed is applied to the total measured or assumed originating FGA usage, terminating FGA usage, originating FGB usage or terminating FGB usage, as applicable, to determine the usage to be billed at premium rates, unless adjusted as set forth in (iii) following.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(4) Transition Billing Arrangement (Cont'd)

(b) (Cont'd)

(ii) (Cont'd)

The ratios used to calculate the premium usage will be determined on a quarterly basis. The ratios to be used for the succeeding quarter will be provided to the customer with the last bill rendered in the quarter or mailed separately within five working days after the first day of the new quarter (i.e., January, April, July and October).

For purposes of administering this provision: (1) subscriber lines are defined as exchange service lines, Centrex lines and Centrex-type lines provided by the Telephone Company under its local and/or general exchange service tariff; (2) the access area is defined as the local calling area of the dial tone office for originating FGA, the entire LATA for terminating FGA, and all end offices subtending the access tandem for originating and terminating FGB; and (3) the local calling area of the dial tone office is as defined in the Telephone Company's local and/or general exchange service tariff.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(4) Transition Billing Arrangement (Cont'd)

(b) (Cont'd)

(iii) Where FGD Switched Access Service is provided to a customer in an end office(s) where that customer's FGA or FGB premium access minutes have been determined in accordance with (ii) preceding, such premium access minutes will be adjusted in the following manner. For each FGD access minute originating from or terminating at that end office, the originating or terminating FGA or FGB premium access minutes determined as set forth in (ii) preceding will be reduced on a one for one basis, but in no event shall the reduction exceed the total number of FGA or FGB premium access minutes originating from or terminating at that end office. For each FGA or FGB premium minute of use reduction in either the originating or terminating direction, a corresponding originating or terminating non premium minute of use will be apportioned to those end offices in the access area that are non equal. Such apportionment will be based upon a ratio of the number of subscriber lines in each non equal end office to the total subscriber lines that are served by all non equal end offices in the access area. The customer will be billed for the revised number of premium or non premium access minutes. (N)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(5) Unmeasured FGA and FGB Access Services

Where originating and/or terminating measurement capability does not exist for Feature Group A or Feature Group B Switched Access Services provided to the first point of switching, the number of access minutes that will be assumed are as set forth following in 6.5.4 and 6.6.4 respectively.

(6) Notice of Equal Access Conversion

The Telephone Company will provide written notification to all access customers of record within a particular LATA that an end office in that LATA is scheduled to be converted to an equal access end office. This notification will be sent, via certified U.S. Mail, to each customer of record in the LATA where the conversion is scheduled to occur, at least six months in advance of the conversion date.

The customer will have the choice of converting all or part of the existing services to equal access (i.e., Feature Group D) or retaining the existing services. The conversion of existing services will be at no charge provided the order to convert such services to Feature Group D is received as set forth in 6.4.3 following. Premium rates will apply to the total access minutes beginning on the actual conversion date, whether the customer chooses to convert to FGD or retain existing services.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(7) Primary/Secondary Exchange Carrier (PEC/SEC)
Rates Applicable to Feature Group A

The following regulations apply for only
Intrastate Interlata usage and where a B-1 service
is used for Intrastate resale purposes.

Where Feature Group A switched access usage is
between a PEC and a SEC, within the same
Extended Area Service (EAS) calling area, the
SEC will apply Switched Access Service rates
which are in addition to those rates charged by
the PEC. Such additional charges will be
comprised of Transport rates applied to
originating access minutes, End Office rates
applied to both originating and terminating
access minutes, and carrier common line rates
applied to originating access minutes as set forth
respectively 17.2.2, 17.2.3, and 17.1.1 following,
provided the following criteria are met:

- the PEC and SEC are not the same Telephone
Company,
- the PEC and SEC do not have a revenue sharing
arrangement where the PEC bills the total cost
of access which includes the SEC's cost of
access,
- the PEC and SEC do not have a Meet Point
Billing arrangement as set forth in 2.4.7(A)
preceding.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(7) Primary/Secondary Exchange Carrier (PEC/SEC)
Rates Applicable to Feature Group A (Cont'd)

SECs which charge such additional rates are set forth in Section 16. following. Such usage will be determined as set forth following:

- (a) Where end office specific usage data are available, such data will be used to determine the charges.
- (b) Where end office specific usage data are not available, the total originating and/or terminating usage will be the measured usage at the first point of switching (i.e., dial tone office) or the assumed usage as set forth in 6.5.4 following.

Originating and/or terminating usage will then be apportioned between the PEC and SEC in the following manner:

- For originating usage, develop ratios of the total number of subscriber lines in each secondary exchange to the total number of subscriber lines in the PEC's EAS area served by the dial tone office. Then apply these ratios to the total number of originating access minutes to determine access minutes for each secondary exchange.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(7) Primary/Secondary Exchange Carrier (PEC/SEC)
Rates Applicable to Feature Group A (Cont'd)

(b) (Cont'd)

- For terminating usage, develop ratios of the total number of subscriber lines in each secondary exchange to the total number of subscriber lines in the PEC's EAS area served by the dial tone office. Then apply these ratios to the total number of terminating access minutes to determine access minutes for each secondary exchange.
- In those instances where a SEC's exchange is part of two or more PEC's Extended Area Service areas, the SEC's subscriber line count described preceding must be apportioned between each PEC's EAS area. This apportionment will be based upon ratios of the subscriber line count of all exchanges other than the SEC's in a PEC's EAS area, of which the SEC's exchange is part, divided by the subscriber line count of all exchanges other than the SEC's in all PEC EAS areas of which the SEC's exchange is a part.
- For purposes of administering this regulation, subscriber lines are defined as exchange service lines, Centrex Lines and Centrex-type lines provided by the telephone companies under local and/or general exchange service tariffs.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(D)

(D)

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WISCONSIN STATE TELEPHONE ASSOCIATION
INTRASTATE ACCESS CHARGE TARIFF

INTRASTATE ACCESS TARIFF NO. 1
Section 6
1st Revision Page 47
Amendment No. 11

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(D)

(D)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

- (8) The ratio used to calculate the access minutes as set forth in (7) preceding will be determined by the Telephone Company and provided to the customer upon his request within 15 days of the receipt of such request. (M)

(9) Common Channel Signaling/Signaling System 7 (CCS/SS7) Network Connection (N)

The CCS/SS7 Network Connection is comprised of a Signaling Mileage Facility charge, a Signaling Mileage Termination charge, a Signaling Entrance Facility charge, and a Signaling Transfer Point (STP) Port charge.

The Signaling Mileage Facility charge is assessed on a per facility per mile basis. The Signaling Mileage Termination charge is assessed on a per termination basis (i.e., at each end of the Signaling Mileage Facility). When the Signaling Mileage Facility mileage measurement is zero, Signaling Mileage Termination charges do not apply.

The Signaling Entrance Facility charge is assessed on a per facility basis for the connection between the customer's designated premises (Signaling Point of Interface) and the serving wire center of that premises.

The STP Port charge is assessed on a per port basis for each termination of a Signaling Mileage Facility at an STP. (N)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(10) 800 Data Base Access Service

A Basic Query or Vertical Feature Query charge applies for each query that is launched to an 800 data base and identifies the customer to whom the call will be delivered. Query charges, as set forth in 17.2.2(B), will only be applied by those companies whose wire centers are identified as assessing query charges in the WSTA Tariff #2.

When Feature Group C or Feature Group D switched access service is used for the provision of 800 Data Base Access Service and the total minutes of use and/or count of queries can be determined for each customer at a tandem or SSP but can not be determined by individual end office, an allocation method will be utilized to determine minutes of use and/or queries by end office and customer. For each end office a ratio will be developed and applied against the total minutes of use and/or count of queries for a given customer as determined by the tandem or SSP. These ratios will be developed by dividing the unidentified originating 800 series minutes of use at an end office by the total unidentified originating minutes of use in all end offices subtending the tandem or SSP. For example, assume:

(C)

- Three end office (EO-1, EO-2, and EO-3) subtend a tandem

EO-1 measures	2,000 minutes of 800 use
EO-2 measures	3,000 minutes of 800 use
EO-3 measures	<u>5,000</u> minutes of 800 use
	10,000 TOTAL

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates (Cont'd)

(10) 800 Data Base Access Service (Cont'd)

- The tandem delivers 800 usage to two customers:
 - IC-A has 4,000 minutes of use
 - IC-B has 6,000 minutes of use
- The allocation ratio for EO-1 is 20%
2,000/10,000
- The minutes of use to be billed by EO-1 are
 - 800 to IC-A (20X X 4,000)
 - 1,200 to IC-B (20X X 6,000)
 - 2,000

TOTAL (N)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.2 Minimum Monthly Charge

Switched Access Service is subject to a minimum monthly charge. The minimum charge applies for the total capacity provided. The minimum monthly charge is calculated as follows.

For the Transport, Local Switching and Information Surcharge rate elements, the minimum monthly charge is the sum of the recurring charges set forth in 17.2.2 and 17.2.3 following for either the actual measured usage or the assumed usage prorated to the number of days or major fraction of days based on a 30 day month.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.3 Change of Switched Access Service Arrangements

Changes from one type of Feature Group to another will be treated as a discontinuance of one type of service and a start of another. Nonrecurring charges will apply, with one exception. When a customer upgrades a Feature Group A or B service to a Feature Group D service and when Feature Group C is upgraded to Feature Group D coincident with the availability of Feature Group D in an end office, the nonrecurring charges will not apply and minimum period obligations will not change, i.e., the time elapsed in the existing minimum period obligation will be credited to the minimum period obligations for FGD service, subject to the following limitations.

In order to avoid the imposition of nonrecurring charges a customer which is a participant in the interlata presubscription allocation process (i.e., is on the presubscription ballot) must:

- submit its order to disconnect Feature Group A and/or B within 30 days after the date the results of the final allocation of customers in an end office are actually received by the customer, and
- make the effective date for disconnection of the Feature Group A and/or B Access Services no later than 60 days after the final allocation results are received by the customer.

A customer which is not a participant in the allocation process (i.e., is not on the interlata presubscription ballot) is subject to the same rules preceding. The time frames for the non-participating customer(s) are the same as those which apply to the last customer to receive the results of the final allocation of customers in an end office who is a participant in the allocation process. For all other changes from one type of Feature Group to another, new minimum period obligations will be established.

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.4 Moves

A move involves a change in the physical location of one of the following:

- The point of termination at the point of connection
- The point of connection

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the installation nonrecurring charge for the capacity affected. This charge is in addition to the Access Order Charge as specified in 17.4.1(A) following. There will be no change in the minimum period requirements.

(B) Moves to a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new service. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

6.4.5 Local Information Delivery Services

Calls over Switched Access Service in the terminating direction to certain community information services will be rated under the applicable rates for Switched Access Service as set forth in 17.2 following. In addition, the charges per call as specified under the Telephone Company's local and/or general exchange service tariffs, e.g., 976 (DIAL-IT) Network Services, will also apply.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.6 Mileage Measurement

The mileage to be used to determine the monthly rate for Local Transport is calculated on the airline distance between the end office switch, which may be a Remote Switching Module, where the call carried by Local Transport originates or terminates and the point of connection (POC). Exceptions are as set forth in (A) through (G) following. For SS7 signaling, the mileage to be used to determine the monthly rate for the Signaling Mileage Facility is calculated on the airline distance between the serving wire center associated with the customer's designated premises (Signaling Point of Interface) and the Telephone Company wire center providing the STP Port. (N)

Where applicable, the V&H coordinates method is used to determine mileage. This method is set forth in the WISCONSIN ACCESS CHARGE TARIFF P.S.C. NO. 2 for Wire Center Information (V&H coordinates). Mileage rates are as set forth in 17.2.2 following. To determine the rate to be billed, first compute the airline mileage using the V&H coordinates method. If the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage and applying the rates. Then multiply the mileage by the appropriate rate. See Matrix in (G) following.

Exceptions to the mileage measurement rules are as follows:

Effective Date: January 3, 1994

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.6 Mileage Measurement (Cont'd)

(A) Feature Group A - Originating Usage

Mileage for premium and non premium rated access minutes in the originating direction over Feature Group A Switched Access Service will be calculated on an airline basis, using the V&H coordinates method. The mileage measurement will be between the first point of switching (end office switch where the Feature Group A switching dial tone is provided) and the customer's serving wire center for the Switched Access Service provided. This exception does not apply to access minutes originating and/or terminating in an Extended Area Service area as set forth in 6.4.1(C)(7) preceding. Extended Area Service area (PEC/SEC) mileage measurement exceptions are found in (D) following.

(B) Feature Group A - No Usage Measurement or Limited Measurement

(C)

Where originating and/or terminating measurement capability (1) does not exist, or (2) exists but it is not End Office specific, mileage for FGA and FGB will be calculated in the unmeasured direction(s) on an airline basis using the V&H coordinates method. This mileage measurement will be between the first point of switching (end office switch where the switching dial tone is provided) and the customers serving wire center for the Switched Access Services. This exception does not apply to Feature Group A access minutes originating and/or terminating in an Extended Area Service area as set forth in 6.4.1(C)(7) preceding. Extended Area Service area (PEC/SEC) mileage measurement exceptions are found in (D) following.

(D)

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(D)

Effective Date: April 14, 1992

Authorized by PSCW Order _____ Letter April 14, 1992

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.6 Mileage Measurement (Cont'd)

(C) Feature Group A - PEC/SEC

Where the customer utilizes FGA Switched Access Service for calls between a Primary Exchange Carrier (PEC) and a Secondary Exchange Carrier (SEC) within the same Extended Area Service calling area as set forth in 6.4.1(C)(7) preceding, where the PEC and SEC are not the same Telephone Company and are not both Issuing Carriers of this access service tariff, the PEC and SEC will calculate mileage for Premium and Non-Premium rated access minutes in the originating direction over Feature Group A Switched Access Services as follows:

- (1) The PEC will calculate originating mileage, on an airline basis, using the V&H coordinates method. This mileage measurement will be between the first point of switching (end office switch where the Feature Group A switching dial tone is provided) and the customer's serving wire center.
- (2) The SEC will calculate originating mileage, on an airline basis, using the V&H coordinate method. This mileage measurement will be between the first point of switching (end office switch where the Feature Group A Switching dial tone is provided) and the end user's end office switch.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.6 Mileage Measurement (Cont'd)

(D) Feature Group C and D - Alternate Traffic Routing

Where the Alternate Traffic Routing optional feature is provided with Feature Groups C and D, the Transport access minutes will be apportioned between the two trunk groups used to provide this feature. Such apportionment will be made using: (1) standard Telephone Company traffic engineering methodology and will be based on the last trunk CCS desired for the high usage group, as described in 6.10.1(L) following (Alternate Traffic Routing), and the total busy hour minutes of capacity ordered to the end office, when the feature is provided at an end office switch, or to the subtending end offices when the feature is provided at an access tandem switch, or (2) an apportionment mutually agreed to by the Telephone Company and the customer. This apportionment will serve as the basis for Transport mileage calculation.

(E) Feature Group C - Multiple CDPs

When terminating Feature Group C Switched Access Service is provided from multiple customer designated premises to an end office not equipped with measurement capabilities, the total Transport access minutes for that end office will be apportioned among the trunk groups accessing the end office on the basis of the individual busy hour minutes of capacity ordered for each of those trunk groups. This apportionment will serve as the basis for Transport mileage calculation.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.6 Mileage Measurement (Cont'd)

(G) Local Transport Facility Matrix

	<u>EO</u>	<u>DTO</u>	<u>A/T</u> <u>ICSWC</u>	<u>Directionality</u>
FGA(M)		LTT ----->		O
FGA(M)	LTT <----->			T
FGA(N)		LTT ----->		O or T
FGA SEC*	LTT ----->			O
FGA SEC	No LT Applicable			T
FGB(M)	LTT <----->			O or T
FGB(N)		LTT <----->		O or T
FGB SEC	No LT Applicable			O or T
FGC	LTT <----->			O or T
FGD	LTT <----->			O or T

Key

M	-	End Office Specific Measurement Available
N	-	No End Office Specific Measurement Available
O	-	Originating
T	-	Terminating
EO	-	End Office
DTO	-	Dial Tone Office
A/T	-	Access Tandem
ICSWC	-	IC Serving Wire Center
LTT	-	Local Transport Termination

* Only Secondary Exchange Carrier (SEC) mileage measurement is applicable under this tariff.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.7 Mixed Use

Mixed use occurs when Switched Access Service and Special Access Service are provided over the same High Capacity service through a common interface. The regulations governing the provision of Mixed Use Facilities are set forth in 5.2.4 preceding and 7.2.7 following.

6.4.8 Message Unit Credit for Feature Group A

Calls from end users to the seven digit local telephone numbers associated with Feature Group A Switched Access Service are subject to Telephone Company local and/or general exchange service tariff charges (including message unit and toll charges as applicable). The monthly bills rendered to customers for their Feature Group A Switched Access Service will include a credit to reflect any message unit charges collected from their end users under the Telephone Company's local and/or general exchange service tariffs. When the customer is provided FGA service where measurement capability does not exist, the credit will apply to access minutes not to exceed the assumed originating access minutes. No credit will apply for any terminating FGA access minutes. The message unit credit for originating access minutes will be based on the generally applicable message unit charges of the Telephone Company.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.9 Application of Rates for Feature Group A Extension Service

Feature Group A Switched Access Service is available with extensions, i.e., additional terminations of the service at different customer designated premises in the same LATA as the FGA dial tone office or a LATA other than the LATA where the FGA dial tone office is located. Feature Group A extensions within the same LATA and the same state as the dial tone office are provided and charged under the Telephone Company's local and/or general exchange service tariffs. Feature Group A extensions located in a LATA other than the LATA where the dial tone office is located are charged as Special Access Service. The rate elements which apply are: A Voice Grade Channel Termination, Channel mileage, if applicable, and Signaling Capability (optional features and functions), if applicable. All appropriate monthly rates and nonrecurring charges set forth in 17.3.4 following will apply.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA)

6.5.1 Description

- (A) FGA Access, which is available to all customers, provides line side access to Telephone Company end office switches with an associated seven digit local telephone number for the customer's use in originating communications from and terminating communications to an Interexchange Carrier's Intrastate Service or a customer - provided intrastate communications capability. The customer must specify the Interexchange Carrier to which the FGA service is connected or, in the alternative, specify the means by which the FGA access communications is transported within state. Special Access Services utilized for connection with FGA at Telephone Company designated WATS Serving Offices as set forth in Section 7. following may be ordered separately by a customer other than the customer which orders the FGA Switched Access Service for the provision of WATS-type services. Special Access Services are ordered as set forth in 5.2 preceding.
- (B) FGA Switching is provided at all end office switches. At the option of the customer, FGA is provided on a single or multiple line group basis and is arranged for originating calling only, terminating calling only, or two-way calling which are specified by the customer's order for service.
- (C) FGA provides a line side termination at the first point of switching (dial tone office). The line side termination will be provided with either ground start supervisory signaling or loop start supervisory signaling. The type of signaling is at the option of the customer.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.1 Description (Cont'd)

(D) The Telephone Company shall select the first point of switching, within the selected LATA, at which the line side termination is to be provided unless the customer requests a different first point of switching and Telephone Company facilities and measurement capabilities, where necessary, are available to accommodate such a request.

(E) A seven digit local telephone number assigned by the Telephone Company is provided for access to FGA switching in the originating direction. The seven digit local telephone number will be associated with the selected end office switch and is of the form NXX-XXXX.

If the customer requests a specific seven digit telephone number that is not currently assigned, and the Telephone Company can, with reasonable effort, comply with that request, the requested number will be assigned to the customer.

(F) FGA switching, when used in the terminating direction, is arranged with dial tone start-dial signaling. When used in the terminating direction FGA switching may, at the option of the customer, be arranged for dial pulse or dual tone multifrequency address signaling, subject to availability of equipment at the first point of switching. When FGA switching is provided in a hunt group or uniform call distribution arrangement, all FGA switching will be arranged for the same type of address signaling.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.1 Description (Cont'd)

- (G) No address signaling is provided by the Telephone Company when FGA switching is used in the originating direction. Address signaling in such cases, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Local Transport provided.
- (H) At the option of the Telephone Company, as indicated in Section 17, Page 1 of this Tariff, FGA switching when used in the terminating direction may be used to access valid NNXs (1) in the intraexchange local calling area only, (2) or in the intraexchange local calling area, plus its Extended Area Service (EAS) and its Extended Community Calling (ECC) area, or (3) within the LATA. FGA switching, when used in the terminating direction, may also be used to access local operator service (0- and 0+), Directory Assistance (411 where available and 555-1212), emergency reporting service (911 where available), exchange telephone repair (611 where available), time or weather announcement services or the Telephone Company, community information services of an information service provider, and other customers' services (by dialing the appropriate digits).

(N)
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(N)

Charges for FGA terminating calls requiring operator assistance or calls to 611 or 911 will only apply where sufficient call details are available. Additional non-access charges will also be billed on

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.1 Description (Cont'd)

(H) (Cont'd)

a separate account for (1) an operator surcharge, as set forth in the local exchange tariffs, for local operator assistance (0- and 0+) calls, (2) calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 (DIAL IT) Network Services, and, (3) calls from a FGA line to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer.

For calls to Directory Assistance (411 and 555-1212, whichever is available), Local Transport rates for FGA Switched Access Service will apply.

- (I) When a FGA switching arrangement for an individual customer (a single line or entire hunt group) is discontinued at an end office, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.2 Optional Features

Following are the various nonchargeable optional features that are available in lieu of, or in addition to, the standard features provided with Feature Group A. They are provided as Common Switching, Transport Termination or Local Transport options.

(A) Common Switching Options

Descriptions of the common switching optional features are set forth in 6.10 following.

- (1) Call Denial on Line or Hunt Group
- (2) Service Code Denial on Line or Hunt Group
- (3) Hunt Group Arrangement
- (4) Uniform Call Distribution Arrangement
- (5) Nonhunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement
- (6) Band Advance Arrangement for Use with Special Access Service Utilized in the Provision of WATS-Type Services
- (7) Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS-Type Services
- (8) Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS-Type Services
- (9) Nonhunting Number Associated with a Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS-Type Services

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.2 Optional Features (Cont'd)

(B) Transport Termination

- (1) Two-way operation with dial pulse address signaling and loop start supervisory signaling
- (2) Two-way operation with dial pulse address signaling and ground start supervisory signaling
- (3) Two-way operation with dial tone multifrequency address signaling and loop start supervisory signaling
- (4) Two-way operation with dial tone multifrequency address signaling and ground start supervisory signaling
- (5) Terminating operation with dial pulse address signaling and loop start supervisory signaling
- (6) Terminating operation with dial pulse address signaling and ground start supervisory signaling
- (7) Terminating operation with dual tone multifrequency address signaling and loop start supervisory signaling
- (8) Terminating operation with dual tone multifrequency address signaling and ground start supervisory signaling
- (9) Originating operation with loop start supervisory signaling
- (10) Originating operation with ground start supervisory signaling

(C) Transport Options

- (1) Supervisory Signaling (as set forth in 15.1.1(E) following)
- (2) Customer Specified Entry Switch Receive Level (as set forth in 15.1.1(E) following)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.3 Optional Features Provided In Local Tariffs

Certain other features which may be available in connection with Feature Group A (e.g., Speed Calling, Remote Call Forwarding, Bill Number Screening, IntraLATA extensions) are provided under the Telephone Company's local and/or general exchange service tariffs.

6.5.4 Measuring Access Minutes

Customer Feature Group A traffic to end offices will be measured (i.e., recorded) or assumed by the Telephone Company at end office switches. Originating and terminating calls will be measured (i.e., recorded) or assumed by the Telephone Company to determine the basis for computing chargeable access minutes. In the event the customer message detail is not available because the Telephone Company lost or damaged tapes or incurred recording system outages, the Telephone Company will estimate the volume of lost customer access minutes of use based on previously known values.

For terminating calls over FGA and for originating calls over FGA (when the off-hook supervisory signal is provided by the customer's equipment before the called party answers), the measured minutes are the chargeable access minutes. For originating calls over FGA (when the off-hook supervisory signal is forwarded by the customer's equipment when the called party answers), chargeable originating access minutes are derived from recorded minutes using the same formula as set forth in 6.7.4 following for Feature Group C.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.4 Measuring Access Minutes (Cont'd)

For originating calls over FGA, usage measurement begins when the originating FGA first point of switching receives an off-hook supervisory signal forwarded from the customer's point of termination. This off-hook signal may be provided by the customer's equipment before the called party answers, or forwarded by the customer's equipment when the called party answers.

The measurement of originating call usage over FGA ends when the originating FGA first point of switching receives an on-hook supervisory signal from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

For terminating calls over FGA, usage measurement begins when the terminating FGA first point of switching receives an off-hook supervisory signal from the terminating end user's end office, indicating the terminating end user has answered. The measurement of terminating call usage over FGA ends when the terminating FGA first point of switching receives an on-hook supervisory signal from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

FGA access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each line or hunt group, and are then rounded up to the nearest access minute for each line or hunt group.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.4 Measuring Access Minutes (Cont'd)

Assumed minutes are used for FGA services which originate or terminate in end offices not equipped with measurement capabilities and in such cases are the chargeable access minutes.

Where originating and terminating measurement capability does not exist for Feature Group A provided to the first point of switching, the number of access minutes will be assumed as set forth in 17.2.6 following.

Where measurement capability exists for either originating or terminating usage, but not both, on a line arranged for two way calling, the number of access minutes per line per month will be assumed usage, as set forth in 17.2.6 following, or the measured usage, whichever is greater. If the usage in the measured direction exceeds the assumed access minutes per line per month, no usage will be assigned in the unmeasured direction. If the measured usage is less than the assumed access minutes per line per month, the usage in the unmeasured direction will be the assumed usage, as set forth in 17.2.6 following, for that unmeasured direction except that the total of measured and assumed minutes in such instances will not exceed the total assumed usage designated for two way calling set forth in 17.2.6 following. If the total exceeds the assumed minutes set forth in 17.2.6 following, the assigned minutes shall be reduced so that the total of measured and unmeasured minutes equals the assumed minutes for two way calling set forth in 17.2.6 following.

Additionally, when the line is arranged for one way calling and there is no measurement capability for that direction, assumed originating access minutes, as set forth in 17.2.6(B) following, will be assigned for originating calling only lines and assumed terminating access minutes, as set forth in 17.2.6(C) following, will be assigned for terminating calling only lines.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.4 Measuring Access Minutes (Cont'd)

The following matrix illustrates the application of assumed access minutes for FGA as set forth in 17.2.6(A), (B) and (C) following.

Service Ordered As	Can Measure Originating	Can't Measure Terminating	Can Measure	Can't Measure
Originating Only	Actual	1,510	N/A	N/A
Terminating Only	N/A	N/A	Actual	2,685
Both Originating and Terminating (originating measurement greater than 4,195)	Actual	N/A	N/A	0
Both Originating and Terminating (originating measurement equal or less than 4,195)	Actual	N/A	N/A	0 to 2,685*
Both Originating and Terminating (terminating measurement greater than 4,195)	N/A	0	Actual	N/A
Both Originating and Terminating (terminating measurement equal or less than 4,195)	N/A	0 to 1,510*	Actual	N/A

* Sum of actual and assumed cannot exceed 4,195. Reduce assumed minutes of use if necessary.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.4 Measuring Access Minutes (Cont'd)

Notwithstanding the preceding, when Feature Group A is used for the provision of WATS-type service where measurement capability exists at the WATS Serving Office but not at the Feature Group A first point of switching, the measured WATS-type originating and/or terminating minutes of use shall be separately summed and compared to their respective total assumed originating and/or terminating minutes of use. The number of access minutes per line per month will be the assumed or the measured usage, whichever is greater.

6.5.5 Testing Capabilities

FGA is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line and milliwatt (102 type) test line. In addition to the tests described in 6.2.4 preceding which are included with the installation of service (Acceptance Testing) and as ongoing routine testing, Additional Cooperative Acceptance Testing and Additional Manual Testing are available as set forth in 13.3.1 following.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB)

6.6.1 Description

- (A) FGB Access, which is available to all customers, provides trunk side access to Telephone Company end office switches with an associated uniform 950-1XXX or 950-0XXX access code. FGB trunk side access is provided for the customer's use in originating communications from and terminating communications to an Interexchange Carrier's Intrastate Service or a customer provided intrastate communication capability. The customer must specify the Interexchange Carrier to which the FGB service is connected or, in the alternative, specify the means by which the FGB access communications is transported within the state. Special Access Services utilized for connection with FGB at Telephone Company designated WATS Serving Offices as set forth in Section 7. following may be ordered separately by a customer other than the customer which orders the FGB Switched Access Service for the provision of WATS or WATS-type services. Special Access Services are ordered as set forth in 5.2 preceding.
- (B) FGB, when directly routed to an end office (i.e., provided without the use of an access tandem switch), is provided at appropriately equipped Telephone Company electronic end office switches. When provided via Telephone Company designated electronic access tandem switches, FGB switching is provided at Telephone Company electronic and electromechanical end office switches.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.1 Description (Cont'd)

- (C) FGB is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start-pulsing signals and answer and disconnect supervisory signaling.
- (D) FGB switching is provided with multifrequency address signaling in both the originating and terminating directions. Except for FGB switching provided with the automatic number identification (ANI) or rotary dial station signaling arrangements as set forth respectively in 6.10.1(F) and 6.10.2(A) following, any other address signaling in the originating direction, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Transport provided.
- (E) The access code for FGB switching is a uniform access code. The form of the uniform access code is 950-1XXX or 950-0XXX. A uniform access code(s) will be assigned to the customer for the customer's domestic communications and another will be assigned to the customer for its international communications, if required. These access codes will be the assigned access numbers of all FGB switched access service provided to the customer by the Telephone Company.
- (F) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGB switching is ordered. When required by technical limitations, a separate trunk group will be established for each type of FGB switching arrangement provided. Different types of FGB or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.1 Description (Cont'd)

- (G) FGB switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider and other customers' services (by dialing the appropriate digits). When directly routed to an end office, only those valid NXX codes served by that end office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed.

The customer will also be billed additional non-access charges for calls to certain community information services for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 (DIAL-IT) Network Service. Additionally, non-access charges will also be billed for calls from a FGB trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer.

Calls in the terminating direction will not be completed to 950-1XXX or 950-0XXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service codes 611 and 911 or 10XXX or 101XXXX access codes. FGB may not be switched, (C) in the terminating direction, to Switched Access Service Feature Groups B, C and D.

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ACCESS SERVICE

6. Switched Access Service (Cont'd) - -

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.1 Description (Cont'd)

- (H) When all FGB switching arrangements are discontinued at an end office and/or in a LATA, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.2 Optional Features

Following are descriptions of the various nonchargeable optional features that are available in lieu of, or in addition to, the standard features provided with Feature Group B. They are set forth in (A), (B) and (C) following and are provided as Common Switching, Transport Termination and Local Transport options. Additionally, other optional features provided in local tariffs are set forth in (D) following.

(A) Common Switching Options

Descriptions of the common switching optional features are set forth in 6.10 following.

- (1) Automatic Number Identification (ANI)
- (2) Up to 7 Digit Outpulsing of Access Digits to Customer
- (3) Band Advance Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services
- (4) Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services
- (5) Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services
- (6) Nonhunting Number Associated with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.2 Optional Features (Cont'd)

(B) Transport Termination Options

Rotary Dial Station Signaling

(C) Transport Options

(1) Customer Specification of Transport Termination

(2) Optional Supervisory Signaling

(3) Customer Specified Entry Switch Receive Level

Inasmuch as these options concern transmission levels and signaling they are set forth in 15.1.1 following.

(D) Optional Features Provided In Local Tariffs

Another feature, Bill Number Screening, which may be available in connection with FGB, is provided under the Telephone Company's local and/or general exchange service tariffs.

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6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.3 Design and Traffic Routing

For Feature Group B, the trunk directionality and traffic routing of the Switched Access Service between the customer designated premises and the entry switch are determined by the customer's order for service. Additionally, the customer may order the optional feature Customer Specification of Transport Termination as set forth in 15.1.1 following.

6.6.4 Measuring Access Minutes

Customer traffic to end offices will be measured (i.e., recorded) or assumed by the Telephone Company at end office switches or access tandem switches. Originating and terminating calls will be measured (i.e., recorded) or assumed by the Telephone Company to determine the basis for computing chargeable access minutes. In the event the customer message detail is not available because the Telephone Company lost or damaged tapes or incurred recording system outages, the Telephone Company will estimate the volume of lost customer access minutes of use based on previously known values.

For both originating and terminating calls over FGB the measured minutes are the chargeable access minutes.

For originating calls over FGB, usage measurement begins when the originating FGB first point of switching receives answer supervision forwarded from the customer's point of termination, indicating the customer's equipment has answered.

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6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.4 Measuring Access Minutes (Cont'd)

The measuring of originating call usage over FGB ends when the originating FGB first point of switching receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

For terminating calls over FGB, usage measurement begins when the terminating FGB first point of switching receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered.

The measurement of terminating call usage over FGB ends when the terminating FGB first point of switching receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

FGB access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office, and are then rounded up to the nearest access minute for each end office.

Assumed minutes are used for FGB services which originate or terminate in end offices not equipped with measurement capabilities and in such cases are the chargeable access minutes.

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6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.4 Measuring Access Minutes (Cont'd)

Where originating and terminating measurement capability does not exist for Feature Group B provided to the first point of switching, the number of access minutes will be assumed, as set forth in 17.2.6(D) following, when the trunk is arranged for two way calling.

Where measurement capability exists for either originating or terminating usage, but not both, on a trunk arranged for two way calling, the number of access minutes per trunk per month will be assumed usage, as set forth in 17.2.6(D) following, or the measured usage, whichever is greater. If the usage in the measured direction exceeds the assumed access minutes per trunk per month, no usage will be assigned in the unmeasured direction. If the measured usage is less than the assumed access minutes per trunk per month, the usage in the unmeasured direction will be the assumed usage, as set forth in 17.2.6 following, for that unmeasured direction except that the total of measured and assumed minutes in such instances will not exceed the total assumed usage designated for two way calling set forth in 17.2.6(D) following. If the total exceeds the assumed minutes set forth in 17.2.6 following, the assigned minutes shall be reduced so that the total of measured and unmeasured minutes equals the assumed minutes for two way calling set forth in 17.2.6(D) following.

Additionally, when the trunk is arranged for one way calling and there is no measurement capability for that direction, assumed originating access minutes, as set forth in 17.2.6(E) following, will be assigned for originating calling only lines and assumed terminating access minutes, as set forth in 17.2.6(F) following, will be assigned for terminating calling only lines.

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6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

(C)

6.6.4 Measuring Access Minutes (Cont'd)

(C)

The following matrix illustrates the application of assumed access minutes for FGB as set forth in 17.2.6(D), (E) and (F) following.

<u>Service Ordered As</u>	<u>Can Measure Originating</u>	<u>Can't Measure Terminating</u>	<u>Can Measure</u>	<u>Can't Measure</u>
Originating Only	Actual	3,132	N/A	N/A
Terminating Only	N/A	N/A	Actual	5,568
Both Originating and Terminating (originating measurement greater than 8,700)	Actual	N/A	N/A	0
Both Originating and Terminating (originating measurement equal or less than 8,700)	Actual	N/A	N/A	0 to 5,568*
Both Originating and Terminating (terminating measurement greater than 8,700)	N/A	0	Actual	N/A
Both Originating and Terminating (terminating measurement equal or less than 8,700)	N/A	0 to 3,132*	Actual	N/A

* Sum of actual and assumed cannot exceed 8,700. Reduce assumed minutes of use if necessary.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.4 Measuring Access Minutes (Cont'd)

Notwithstanding the preceding, when Feature Group B is used for the provision of WATS or WATS-type service where measurement capability exists at the WATS Serving Office but not at the Feature Group B first point of switching, the measured WATS or WATS-type originating and/or terminating minutes of use shall be separately summed and compared to their respective total assumed originating and/or terminating minutes of use. The number of minutes per trunk per month will be the assumed or the measured usage, whichever is greater.

When Feature Group B is ordered at an access tandem and end office specific usage measurement is not available, the actual or assumed originating and/or terminating minutes of use as determined by the exchange carrier providing the access tandem will be apportioned among all subtending end offices. For each end office, such apportionment shall be based on the ratio of the total number of subscriber lines in each end office subtending the access tandem to the total number of subscriber lines associated with all end offices subtending the access tandem. For purposes of administering this regulation, subscriber lines are defined as exchange service lines, Centrex lines and Centrex-type lines provided by the telephone companies under local and/or general exchange service tariffs. The resulting ratio for each end office is then applied to the total access area originating and/or terminating minutes of use to determine originating and/or terminating minutes of use to be assigned for billing purposes to each subtending end office in the access area.

The ratio used to calculate the access minutes will be determined by the Telephone Company and provided to the customer upon his request within 15 days of the receipt of such request.

(N)

(N)

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6. Switched Access Service (Cont'd)

6.6 Description and Provision of Feature Group B (FGB) (Cont'd)

6.6.5 Testing Capabilities

FGB is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.2.4 preceding which are included with the installation of service (Acceptance Testing) and as ongoing routine testing, Additional Cooperative Acceptance Testing, Additional Automatic Testing, and Additional Manual Testing are available as set forth in 13.3.1 following.

(M)

(M)

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6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC)

6.7.1 Description

- (A) FGC Access provides trunk side access to Telephone Company end office switches for the customer's use in originating and terminating communications. Originating and terminating FGC Access is available to providers of MTS and WATS. Originating FGC Access is available to all customers when used to provide the Interim NXX Translation optional feature or 800 Data Base service. Terminating FGC Access is available to all customers other than providers of MTS and WATS when such access is used in conjunction with the provision of the Interim NXX Translation Optional Feature or 800 Data Base service, but only for purposes of testing. Existing FGC Access will be converted to Feature Group D Access when Feature Group D Access becomes available in an end office. Special Access Services utilized for connection with FGC at Telephone Company designated WATS Serving Offices as set forth in Section 7. following may be ordered separately by a customer other than the customer which orders the FGC Switched Access Service (i.e., a provider of MTS and WATS) for the provision of WATS Services. Special Access Services are ordered as set forth in 5.2 preceding.
- (C)
- (C)

Regulations applicable to WATS Access Lines being used as an option of Switched Access Service are as set forth in 6.11 following.

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6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.1 Description (Cont'd)

- (B) Feature Group C switching is provided at all end office switches unless Feature Group D end office switching is provided in the same office. When FGD switching is available, FGC switching will not be provided. FGC is provided at Telephone Company end office switches on a direct trunk basis or via Telephone Company designated access tandem switches. Feature Group C switching is furnished to providers of MTS and WATS. Additionally, originating Feature Group C switching is available to all customers when used to provide the Interim NXX Translation optional feature or 800 Data Base service. Terminating Feature Group C switching is available to all customers who are not MTS and WATS providers only when such terminating access is for purposes of testing Feature Group C facilities provided in conjunction with the Interim NXX Translation optional feature or 800 Data Base service. (C)
- (C) FGC is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with answer and disconnect supervisory signaling. Wink start start-pulsing signals are provided in all offices where available. In those offices where wink start start-pulsing signals are not available, delay dial start-pulsing signals will be provided, unless immediate dial pulse signaling is provided, in which case no start-pulsing signals are provided. (C)

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6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.1 Description (Cont'd)

- (D) FGC is provided with multifrequency address signaling except in certain electromechanical end office switches where multifrequency signaling is not available. In such switches, the address signaling will be dial pulse or immediate dial pulse signaling, whichever is available. Up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises where the Switched Access Service terminates. Such called party number signals will be subject to the ordinary transmission capabilities of the Transport provided.
- (E) No access code is required for FGC switching. The telephone number dialed by the customer's end user shall be a seven or ten digit number for calls in the North American Numbering Plan (NANP). The form of the numbers dialed by the customer's end user is NXX-XXXX, 0 or 1 + NXX-XXXX, NPA + NXX-XXXX, and 0 or 1 + NPA + NXX-XXXX.

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6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.1 Description (Cont'd)

- (F) FGC switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information provider, and other customer's services (by dialing the appropriate codes) when the services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX codes served by offices subtending the access tandem may be accessed. Where measurement capabilities exist, the customer will also be billed additional non-access charges for calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 (DIAL IT) Network Services. Additionally, non-access charges will also be billed for calls from a FGC trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company preforms the billing function for that customer. Calls in the terminating direction will not be completed to 950-1XXX or 950-0XXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service codes 611 and 911 and 10XXX or 101XXXX (C) access codes. FGC may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, C or D.

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6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.1 Description (Cont'd)

- (G) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGC switching is provided. When required by technical limitations, a separate trunk group will be established for each type of FGC switching arrangement provided. Different types of FGC or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.
- (H) Unless prohibited by technical limitations the providers of MTS and WATS may, at their option, combine Interim NXX Translation and/or 800 Data Base traffic in the same trunk group arrangement with their non-Interim NXX Translation traffic. When required by technical considerations, or when provided to a customer other than the provider of MTS and WATS, or at the request of the customer (i.e., provider of MTS and WATS), a separate trunk group will be established for Interim NXX Translation traffic and/or 800 Data Base. (C)
- (I) Held for Future Use (N)
- (J) FGC switching is provided with multifrequency address signaling or out of band SS7 signaling where technically feasible. With multifrequency address signaling and SS7 signaling, up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises where the Switched Access Service terminates. Such address signals will be subject to the ordinary transmission capabilities of the Local Transport provided. (N)

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6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.2 Optional Features

Following are descriptions of the various nonchargeable and chargeable optional features that are available in lieu of, or in addition to, the standard features provided with Feature Group C. Nonchargeable optional features are provided as Common Switching, Transport Termination and Transport options as set forth in (A) through (C) following. Chargeable optional features are set forth in (D) following.

(A) Common Switching Options

Descriptions of the common switching optional features are set forth in 6.10 following.

- (1) Automatic Number Identification (ANI)
- (2) Signaling Options
 - (a) Delay Dial Start-Pulsing Signaling
 - (b) Immediate Dial Pulse Address Signaling
 - (c) Dial Pulse Address Signaling
- (3) Service Class Routing
- (4) Alternate Traffic Routing
- (5) Trunk Access Limitation
- (6) Band Advance Arrangement Associated with Special Access Service Utilized in the Provision of WATS Service
- (7) End Office End User Line Service Screening for Use with Special Access Service Utilized in the Provision of WATS Service
- (8) Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS Service

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6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.2 Optional Features (Cont'd)

(A) Common Switching Options (Cont'd)

- (9) Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS Services
- (10) Nonhunting Number Associated with a Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS Services

(B) Transport Termination Options

- (1) Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin

The Operator Trunk option is set forth in 6.10.2(B) following.

(C) Local Transport Options

(1) Supervisory Signaling

The Supervisory Signaling optional feature, due to its technical nature, is set forth in 15.1.1 following.

(2) Signaling System 7 (SS7)

The SS7 optional feature allows the customer to receive signals for out of band call set up and is available with Feature Group C. This option requires the establishment of a signaling connection between the customer's designated premises/SPOI and a Signaling Transfer Point (STP).

SS7 is provided in both the originating and terminating direction on FGC and each signaling connection is provisioned for two way SS7 signaling information.

(T)
|
(T)
|
(N)
|
(N)

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6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.2 Optional Features (Cont'd)

(C) Local Transport Options(Cont'd)

(2) Signaling System 7 (SS7)(Cont'd)

The SS7 optional feature is only available where designated in Tariff F.C.C. No. 4 to providers of MTS and WATS for all traffic and to all other customers for originating calls to 800 series numbers.

(C)

(3) Multifrequency Address Signaling

(4) Calling Party Number (CPN)

(5) Charge Number Parameter (CNP)

(D) Chargeable Optional Features

(1) Interim NXX Translation

The Interim NXX Translation Optional Feature is set forth in 6.10.3(A) following.

(2) Common Channel Signaling/Signaling System 7 (CCS/SS7) Network Connection Service (CCSNC)

The CCSNC Optional Feature is provided as set forth in 6.10.5 following.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.3 Design and Traffic Routing

For Feature Group C, the Telephone Company shall design and determine the routing of Switched Access Service, including the selection of the first point of switching and the selection of facilities from the interface to any switching point and to the end offices where busy hour minutes of capacity are ordered. The Telephone Company shall also decide if capacity is to be provided by originating only, terminating only, or two-way trunk groups. Finally, the Telephone Company will decide whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment.

Selection of facilities and equipment and traffic routing of the service are based on standard engineering methods, available facilities and equipment, and the Telephone Company traffic routing plans. If the customer desires routing or directionality different from that determined by the Telephone Company, the Telephone Company will work cooperatively with the customer in determining (1) whether the service is to be routed directly to an end office or through an access tandem switch and (2) the directionality of the service.

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6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.4 Measuring Access Minutes

Customer traffic to end offices will be measured (i.e., recorded) by the Telephone Company at end office switches or access tandem switches. Originating and terminating calls will be measured or imputed by the Telephone Company to determine the basis for computing chargeable access minutes. In the event the customer message detail is not available because the Telephone Company lost or damaged tapes or incurred recording system outages, the Telephone Company will estimate the volume of lost customer access minutes of use based on previously known values.

For terminating calls over FGC, when measurement capability exists, the measured minutes are the chargeable access minutes. For originating calls over FGC, chargeable originating access minutes are derived from recorded minutes in the following manner:

Step 1: Obtain recorded originating minutes and messages, sourcing from the appropriate recording data.

Step 2: Obtain the total attempts by dividing the originating measured messages by the completion ratio. Completion ratios (CR) are obtained separately for the major call categories such as DDD, operator, 800 series, 900, directory assistance and from a sample study which analyzes the ultimate completion status of the total attempts which receive acknowledgment from the customer. That is, Measured Messages divided by Completion Ratio equals Total Attempts.

(C)

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6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.4 Measuring Access Minutes (Cont'd)

Step 3: Obtain the total non-conversation time additive (NCTA) by multiplying the total attempts (obtained in Step 2) by the NCTA per attempt ratio. The NCTA per attempt ratio is obtained from the sample study identified in Step 2 by measuring the non-conversation time associated with both completed and incompletd attempts. The total NCTA is the time on a completed attempt from customer acknowledgment of receipt of call to called party answer (set up and ringing) plus the time on an incompletd attempt from customer acknowledgment of call until the access tandem or end office receives a disconnect signal (ring - no answer, busy or network blockage). That is, Total Attempts times Non-Conversation Time per Attempt Ratio equals Total NCTA.

Step 4: Obtain total chargeable originating access minutes by adding the total NCTA (obtained in Step 3) to the recorded originating measured minutes (obtained in Step 1). That is, Measured Minutes plus NCTA equals Chargeable Originating Access Minutes.

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6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.4 Measuring Access Minutes (Cont'd)

Following is an example which illustrates how the chargeable originating access minutes are derived from the measured originating minutes using this formula.

Where: Measured Minutes (M. Min.) = 7,000
 Measured Messages (M. Mes.) = 1,000
 Completion Ratio (CR) = .75
 NCTA per Attempt = .4

$$(1) \text{ Total Attempts} = 1,000(\text{M. Mes}) \div .75 (\text{CR}) = 1,333.3$$

$$(2) \text{ Total NCTA} = .4 (\text{NCTA per Attempt}) \times 1,333.33 = 533.33$$

$$(3) \text{ Total Chargeable Originating Access Minutes} = 7,000 (\text{M. Min}) + 533.33 (\text{NCTA}) = 7,533.33$$

FGC access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office, and are then rounded up to the nearest access minute for each end office.

Originating Usage

(T)

For originating calls over FGC, usage measurement begins when the originating FGC first point of switching receives answer supervision from the customer's point of termination, indicating the called party has answered.

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6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.4 Measuring Access Minutes (Cont'd)

Originating Usage (Cont'd)

For originating calls over FGC provided with Signaling System 7 (SS7) Signaling when the FGC end office is not routed through an access tandem for connection to the customer, usage measurement begins when the SS7 Initial Address Message is sent from the Service Switching Point (SSP) to the Service Transfer Point (STP).

(N)

For originating calls over FGC provided with Signaling System 7 (SS7) Signaling when the FGC end office is routed through a tandem for connection to the customer, usage measurement begins when the FGC end office receives the SS7 Exit Message from the tandem.

(N)

The measurement of originating call usage over FGC ends when the originating FGC first point of switching receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

The measurement of originating call usage over FGC provided with SS7 Signaling ends when the originating FGC end office receives an SS7 Release Message indicating either the originating or terminating end user has disconnected.

(N)

(N)

Terminating Usage

For terminating calls over FGC to services other than closed end services (e.g., 800 and 900 services) or Directory Assistance, the chargeable access minutes are either measured or imputed. For terminating calls over FGC where measurement capability does not exist, terminating FGC usage is imputed from originating usage, excluding usage from calls to closed end services or Directory Assistance Services.

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6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.4 Measuring Access Minutes (Cont'd)

Terminating Usage

For terminating calls over FGC where measurement capability exists, the measurement of chargeable access minutes begins when the terminating FGC first point of switching receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered. This measurement ends when the terminating FGC first point of switching receives an on-hook supervisory signal from the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

(M)

(M)

For terminating calls over FGC with SS7 signaling, usage measurement begins when the terminating recording switch receives answer supervision from the terminating end user. The Telephone Company switch receives answer supervision and sends the indication to the customer in the form of an answer message. The measurement of terminating FGC call usage ends when the entry switch receives or sends Release Message, whichever occurs first.

(N)

(N)

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6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.5 Design Blocking Probability

The Telephone Company will design the facilities used in the provision of Switched Access Service FGC to meet the blocking probability criteria as set forth in (A) and (B) following.

- (A) For Feature Group C, the design blocking objective will be no greater than one percent (.01) between the point of terminating at the customer's designated premises and the first point of switching when traffic is directly routed without an alternate route. Standard traffic engineering methods will be used by the Telephone Company to determine the number of transmission paths required to achieve this level of blocking.
- (B) The Telephone Company will perform routine measurement functions to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional capacity (i.e., busy hour minutes of capacity) be ordered by the customer when additional paths are required to reduce the measured blocking to the designed blocking level. For the capacity ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the threshold listed in the following tables.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.5 Design Blocking Probability (Cont'd)

(B) (Cont'd)

- (1) For transmission paths carrying only first routed traffic direct between an end office and customer's designated premises without an alternate route, and for paths carrying only overflow traffic, the measured blocking thresholds are as follows:

Number of Transmission Paths Per Trunk Group	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m.			
	Per Trunk Group			
	15-20 Measurements	11-14 Measurements	7-10 Measurements	3-6 Measurements
2	7%	8%	9%	14%
3	5%	6%	7%	9%
4	5%	6%	7%	8%
5-6	4%	5%	6%	7%
7 or more	3%	3.5%	4%	6%

- (2) For transmission paths carrying first routed traffic between an end office and customer's premises via an access tandem, the measured blocking thresholds are as follows:

Number of Transmission Paths Per Trunk Group	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m.			
	Per Trunk Group			
	15-20 Measurements	11-14 Measurements	7-10 Measurements	3-6 Measurements
2	4.5%	5.5%	6.0%	9.5%
3	3.5%	4.0%	4.5%	6.0%
4	3.5%	4.0%	4.5%	5.5%
5-6	2.5%	3.5%	4.0%	4.5%
7 or more	2.0%	2.5%	3.0%	4.0%

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.6 Testing Capabilities

FGC is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.2.4 preceding which are included with the installation of service (Acceptance Testing) and as ongoing routine testing, Additional Cooperative Acceptance Testing, Additional Automatic Testing and Additional Manual Testing are available as set forth in 13.3.1 following.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD)

6.8.1 Description

- (A) FGD Access, which is available to all customers, provides trunk side access to Telephone Company end office switches. Special Access Services utilized for connection with FGD at Telephone Company designated WATS Serving offices as set forth in Section 7. following may be ordered separately by a customer other than the customer which orders the FGD Switched Access Service for the provision of WATS or WATS-type services. Special Access Services are ordered as set forth in 5.2 preceding.
- (B) FGD is provided at Telephone Company designated end office switches whether routed directly or via Telephone Company designated electronic access tandem switches.
- (C) FGD is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling.
- (D) FGD switching is provided with multifrequency address signaling or out of band SS7 signaling. With multifrequency address signaling and SS7 signaling, up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises where the Switched Access Service terminates. Such address signals will be subject to the ordinary transmission capabilities of the Local Transport provided.

(C)
|
(C)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.1 Description (Cont'd)

(E) FGD switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services (by dialing the appropriate codes) when such services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem may be accessed. The customer will also be billed additional non-access charges for calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs, e.g., 976 (DIAL-IT) Network Service. Additionally, non-access charges will also be billed for calls from a FGD trunk to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer. Calls in the terminating direction will not be completed to 950-1XXX or 950-0XXX access codes, local operator assistance (0- and 0+), Directory Assistance (411 and 555-1212), service codes 611 and 911 and 10XXX or 101XXXX access codes. FGD may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, C or D.

(C)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.1 Description (Cont'd)

(F) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGD switching is provided. When required by technical limitations, a separate trunk group will be established for each type of FGD switching arrangement provided. Different types of FGD or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.

(G) The access code for FGD switching is a uniform access code of the form 10XXX or 101XXXX. A uniform access code(s) will be the assigned number of all FGD access provided to the customer by the Telephone Company. No access code is required for calls to a customer over FGD Switched Access Service if the end user's telephone exchange service is arranged for presubscription to that customer, as set forth in 13.4 following. (C)

Where no access code is required, the number dialed by the customer's end user shall be a seven or ten digit number for calls in the North American Numbering Plan (NANP). The form of the numbers dialed by the customer's end user is NXX-XXXX, 0 or 1 + NXX-XXXX, NPA + NXX-XXXX, and 0 or 1 + NPA + NXX-XXXX.

When the 10XXX or 101XXXX access code is used, FGD switching also provides for dialing the digit 0 for access to the customer's operator, 911 for access to the Telephone Company's emergency reporting service, or the end-of-dialing digit (#) for cut-through access to the customer designated premises. (C)

Unless otherwise ordered, when equal access is provided through a centralized equal access arrangement the 10XXX or 101XXXX access code may not be available in certain equal access offices. Those offices which provide FGD Switched Access Service without the 10XXX or 101XXXX access code are identified in WISCONSIN ACCESS CHARGE TARIFF P.S.C. NO. 2. (C)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.1 Description (Cont'd)

- (H) FGD switching will be arranged to accept calls from telephone exchange service locations without the need for dialing the 10XXX or 101XXXX uniform access code. (C)
Each telephone exchange service line may be marked with a code to identify which 10XXX or 101XXXX code its calls (C) will be directed to for interLATA service.
- (I) Unless prohibited by technical limitations, the customer's Interim NXX Translation and/or 800 Data Base traffic may, at the option of the customer, be combined in the same trunk group arrangement with the customer's non-Interim NXX Translation and/or 800 Data Base traffic. When required by technical limitations, or at the request of the customer, a separate trunk group will be established for Interim NXX Translation and/or 800 Data Base traffic.
- (J) When a customer has had FGB access in an end office and subsequently replaces the FGB access with FGD access, at the mutual agreement of the customer and the Telephone Company, the Telephone Company will direct calls dialed by the customer's end users using the customer's previous FGB access code to the customer's FGD access service. The Customer must be prepared to handle normally dialed FGD calls, as well as calls dialed with the FGB access code which requires the customer to receive additional address signaling from the end user. Such calls will be rated as FGD. The Telephone Company may, with 90 days' written notice to the customer, discontinue this arrangement.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.2 Optional Features

Following are the various nonchargeable and chargeable optional features that are available in lieu of, or in addition to, the standard features provided with Feature Group D. Nonchargeable optional features are provided as Common Switching, Transport Termination and Transport options as set forth in (A) through (C) following. Chargeable optional features are set forth in (D) following.

(A) Common Switching Options

Descriptions of the common switching optional features are set forth in 6.10 following.

- (1) Automatic Number Identification (ANI)
- (2) Service Class Routing
- (3) Alternate Traffic Routing
- (4) Trunk Access Limitation
- (5) Call Gapping Arrangement
- (6) International Carrier Option
- (7) Band Advance Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Service
- (8) End Office End User Line Service Screening for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Service
- (9) Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Service

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.2 Optional Features (Cont'd)

(A) Common Switching Options (Cont'd)

- (10) Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services
- (11) Nonhunting Number Associated with a Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

(12) Digital Switched 56 Service

(N)

(B) Transport Termination Options

(1) Operator Trunk - Full Feature

The Operator Trunk optional feature is set forth in 6.10.2(C) following.

(C) Local Transport Options

(T)

(1) Supervisory Signaling

The Supervisory Signaling optional feature, due to its technical nature, is set forth in 15.1.1 following.

(T)

(2) Signaling System 7 (SS7)

(N)

The SS7 optional feature allows the customer to send and receive signals for out of band call set up and is available with Feature Group D. This option requires the establishment of a signaling connection between the customer's designated premises, Signaling Point of Interface and a Telephone Company's Signaling Transfer Point (STP).

SS7 is provided in both the originating and terminating direction on FGD and each signaling connection is provisioned for two way SS7 signaling information.

(N)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.2 Optional Features (Cont'd)

- | | |
|---|-----|
| (C) <u>Local Transport Options</u> (Cont'd) | (T) |
| (3) <u>Multifrequency Address Signaling</u> | (N) |
| (4) <u>Calling Party Number (CPN) Parameter</u> | |
| (5) <u>Charge Number Parameter (CNP)</u> | |
| (6) <u>Carrier Selection Parameter (CSP)</u> | (N) |
| (D) <u>Chargeable Optional Features</u> | (M) |
| (1) <u>Interim NXX Translation</u> | |
| The Interim NXX Translation Optional Feature is set forth in 6.10.3 following. | (M) |
| (2) <u>Common Channel Signaling/Signaling System 7 (CCS/SS7) Network Connection Service (CCSNC)</u> | (N) |
| The CCSNC Optional Feature is provided as set forth in 6.10.4 following. | (N) |

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.3 Design and Traffic Routing

For Feature Group D, the Telephone Company shall design and determine the routing of Switched Access Service, including the selection of the first point of switching and the selection of facilities from the interface to any switching point and to the end offices where busy hour minutes of capacity are ordered. The Telephone Company shall also decide if capacity is to be provided by originating only, terminating only, or two-way trunk groups. Finally, the Telephone Company will decide whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment.

Selection of facilities and equipment and traffic routing of the service are based on standard engineering methods, available facilities and equipment, and the Telephone Company traffic routing plans. If the customer desires routing or directionality different from that determined by the Telephone Company, the Telephone Company will work cooperatively with the customer in determining (1) whether the service is to be routed directly to an end office or through an access tandem switch and (2) the directionality of the service.

6.8.4 Measuring Access Minutes

Customer traffic to end offices will be recorded at end office switches or access tandem switches. Originating and terminating calls will be recorded to determine the basis for computing chargeable access minutes. In the event the customer message detail is not available because the Telephone Company lost or damaged tapes or incurred recording system outages, the Telephone Company will estimate the volume of lost customer access minutes of use based on previously known values.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.4 Measuring Access Minutes (Cont'd)

Originating Usage

For originating calls over FGD the measured minutes are the chargeable access minutes.

For originating calls over FGD, usage measurement begins when the originating FGD first point of switching receives the first wink supervisory signal forwarded from the customer's point of termination.

For originating calls over FGD provided with Signaling System 7 (SS7) Signaling when the FGD end office is not routed through an access tandem for connection to the customer, usage measurement begins when the SS7 Initial Address Message is sent from the Service Switching Point (SSP) to the Service Transfer Point (STP).

(N)

For originating calls over FGD provided with Signaling System 7 (SS7) signaling when the FGD end office is routed through a tandem for connection to the customer, usage measurement begins when the FGD end office receives the SS7 Exit Message from the tandem.

(N)

The measurement of originating call usage over FGD ends when the originating FGD first point of switching receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

The measurement of originating call usage over FGD provided with SS7 Signaling ends when the originating FGD end office receives an SS7 Release Message indicating either the originating or terminating end user has disconnected.

(N)

(N)

Terminating Usage

For terminating calls over FGD the chargeable access minutes are either measured or imputed.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.4 Measuring Access Minutes (Cont'd)

Terminating Usage (Cont'd)

For terminating calls over FGD, where measurement capability exists, the measurement of chargeable access minutes begins when the terminating FGD first point of switching receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered. This measurement ends when the terminating FGD first point of switching receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

(M)

For terminating calls over FGD, where measurement capability does not exist, terminating FGD usage is imputed from originating usage, excluding usage from calls to closed end services or Directory Assistance Services.

(M)

For terminating calls over FGD with SS7 signaling, usage measurement begins when the terminating recording switch receives answer supervision from the terminating end user. The Telephone Company switch receives answer supervision and sends the indication to the customer in the form of an answer message. The measurement of terminating FGD call usage ends when the entry switch receives or sends a release message, whichever occurs first.

(N)

(N)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.5 Design Blocking Probability

The Telephone Company will design the facilities used in the provision of Switched Access Service FGD to meet the blocking probability criteria as set forth in (A) and (B) following.

- (A) For Feature Group D, the design blocking objective will be no greater than one percent (.01) between the point of termination at the customer's designated premises and the end office switch, whether the traffic is directly routed without an alternate route or routed via an access tandem. Standard traffic engineering methods as set forth in reference document Telecommunications Transmission Engineering - Volume 3 - Networks and Services (Chapters 6-7) will be used by the Telephone Company to determine the number of transmission paths required to achieve this level of blocking.
- (B) The Telephone Company will perform routine measurement functions to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional capacity (i.e., busy hour minutes of capacity or trunks) be ordered by the customer when additional paths are required to reduce the measured blocking to the designed blocking level. For the capacity ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the threshold listed in the following tables.

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6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.5 Design Blocking Probability (Cont'd)

(B) (Cont'd)

- (1) For transmission paths carrying only first routed traffic direct between an end office and customer's designated premises without an alternate route, and for paths carrying only overflow traffic, the measured blocking thresholds are as follows:

Number of Transmission Paths Per Trunk Group	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m.			
	Per Trunk Group			
	15-20	11-14	7-10	3-6
	<u>Measurements</u>	<u>Measurements</u>	<u>Measurements</u>	<u>Measurements</u>
2	7%	8%	9%	14%
3	5%	6%	7%	9%
4	5%	6%	7%	8%
5-6	4%	5%	6%	7%
7 or more	3%	3.5%	4%	6%

- (2) For transmission paths carrying first routed traffic between an end office and customer's premises via an access tandem, the measured blocking thresholds are as follows:

Number of Transmission Paths Per Trunk Group	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m.			
	Per Trunk Group			
	15-20	11-14	7-10	3-6
	<u>Measurements</u>	<u>Measurements</u>	<u>Measurements</u>	<u>Measurements</u>
2	4.5%	5.5%	6.0%	9.5%
3	3.5%	4.0%	4.5%	6.0%
4	3.5%	4.0%	4.5%	5.5%
5-6	2.5%	3.5%	4.0%	4.5%
7 or more	2.0%	2.5%	3.0%	4.0%

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.6 Network Blocking Charge

The customer will be notified by the Telephone Company to increase its capacity (busy hour minutes of capacity or quantities of trunks) when excessive trunk group blocking occurs on groups carrying Feature Group D traffic and the measured access minutes for that hour exceed the capacity purchased. Excessive trunk group blocking occurs when the blocking thresholds stated below are exceeded. They are predicated on time consistent, hourly measurements over a 30 day period excluding Saturdays, Sundays and national holidays. If the order for additional capacity has not been received by the Telephone Company within 15 days of the notification, the Telephone Company will bill the customer, at the rate set forth in 17.2.2 following, for each overflow in excess of the blocking threshold when (1) the average "30 day period" overflow exceeds the threshold level for any particular hour and (2) the "30 day period" measured average originating or two-way usage for the same clock hour exceeds the capacity purchased.

Blocking Thresholds

<u>Trunks in Service</u>	<u>1%</u>	<u>1/2%</u>
1-2	7.0%	4.5%
3-4	5.0%	3.5%
5-6	4.0%	2.5%
7 or greater	3.0%	2.0%

The 1% blocking threshold is for transmission paths carrying traffic direct (without an alternate route) between an end office and a customer's premises. The 1/2% blocking threshold is for transmission paths carrying first routed traffic between an end office and a customer's premises via an access tandem.

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6. Switched Access Service (Cont'd)

6.8 Description and Provision of Feature Group D (FGD) (Cont'd)

6.8.7 Testing Capabilities

FGD is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.2.4 preceding, which are included with the installation of service (Acceptance Testing) and as ongoing routine testing, Additional Cooperative Acceptance Testing, Additional Automatic Testing and Additional Manual Testing, are available as set forth in 13.3.1 following.

When SS7 Signaling is ordered, network compatibility and other testing will be performed cooperatively by the Telephone Company and the customer as specified in Technical References TR-TSV 000905.

(N)
|
(N)

6.9 Held For Future Use.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim 800 Translation
Optional Features

Following are descriptions of the various optional features that are available in lieu of, or in the addition to, the standard features provided with the Feature Groups. They are provided as Common Switching, Transport Termination or Interim 800 Translation options.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim 800 Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features

The following table shows the Feature Groups with which
the optional features are available

<u>Option</u>	<u>Available Feature Groups</u>			
	A	B	C	D
A) Call Denial on Line or Hunt Group	X			
B) Service Code Denial on Line or Hunt Group				
C) Hunt Group Arrangement	X			
D) Uniform Call Distribution Arrangement	X			
E) Nonhunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement	X			
F) Automatic Number Identification (ANI)		X	X	X
G) Up to 7 Digit Outpulsing of Access Digit to Customer		X		
H) Delay Dial Start-Pulsing Signaling			X	
I) Immediate Dial Pulse Address Signaling			X	
J) Dial Pulse Address Signaling			X	
K) Service Class Routing			X	X
L) Alternate Traffic Routing			X	X

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

Option	Available Feature Groups				
	A	B	C	D	
M) Trunk Access Limitation			X	X	
N) Call Gapping Arrangement				X	
O) International Carrier Option				X	
P)* Band Advance Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services	X	X	X	X	
Q)* End Office End User Line Service Screening for Use with Special Access Service Utilized in The Provision of WATS or WATS-Type Services			X	X	
R)* Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services	X	X	X	X	
S)* Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services	X	X	X	X	
T)* Nonhunting Number Associated with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services	X	X	X	X	
U) Held For Future Use					(N)
V) Multifrequency Address Signaling			X	X	
W) Signaling System 7 (SS7) Signaling			X	X	
X) Calling Party Number (CPN)					
Y) Charge Number Parameter (CNP)			X	X	
Z) Carrier Selection Parameter (CSP)				X	(N)

* Options for WATS Access Lines as part of Switched Access Service are as listed in 6.11 following.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(A) Call Denial on Line or Hunt Group

This option allows for the screening of terminating Interlata Feature Group A calls by limiting terminating calls for completion to only 411 or 555-1212 whichever is available, 611, 911, 800 series and a Telephone Company specified set of NXXs within the Telephone Company local exchange calling area of the dial tone office in which the arrangement is provided. This feature is available with Feature Group A.

(C)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching. Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(B) Service Code Denial on Line or Hunt Group

(C) Hunt Group Arrangement

This option provides the ability to sequentially access one of two or more line side connections in the originating direction, when the access code of the line group is dialed. This feature is provided in all Telephone Company end offices. It is available with Feature Group A. All Feature Group A access services in the same hunt group must provide off-hook supervisory signaling from the same point in time in the call sequence i.e., all off-hook supervisory signals must either be provided by the customer's equipment before the called party answers or all must be forwarded by the customer's equipment when the called party answers.

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6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(D) Uniform Call Distribution Arrangement

This option provides a type of multiline hunting arrangement which provides for an even distribution of calls among the available lines in a hunt group. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

(E) Nonhunting Number for Use with Hunt Group or Uniform
Call Distribution Arrangement

This option provides access to an individual line within a multiline hunt or uniform call distribution group. When the nonhunting number is dialed, access is provided when it is idle, or busy tone is provided when it is busy. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

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6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(F) Automatic Number Identification (ANI)

- (1) This option provides the automatic transmission of a seven digit or ten digit number and information digits to the customer designated promises for calls originating in the LATA, to identify the calling station. The ANI feature is an end office software function which is associated on a call-by-call basis with:
- (a) all individual transmission paths in a trunk group routed directly between an end office and a customer designated promises or, where technically feasible, with
 - (b) all individual transmission paths in a trunk group between an end office and an access tandem, and a trunk group between an access tandem and a customer designated premises.
- (2) The seven digit ANI telephone number is generally available with Feature Groups B and C. With these Feature Groups, technical limitations may exist in Telephone Company switching facilities which require ANI to be provided only on a directly trunked basis. ANI will be transmitted on all calls except those originating from multiparty lines, coin stations and coinless pay telephones using Feature Group B, or when an ANI failure has occurred. Seven digit ANI is not available with SS7 Signaling.

(C)
(C)

Effective Date: January 3, 1994

Authorized by PSCW Order _____ Letter January 3, 1994

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(F) Automatic Number Identification (ANI) (Cont'd)

(3) The ten digit ANI telephone number is only available with Feature Group D. The ten digit ANI telephone number consists of the Number Plan Area (NPA) plus the seven digit ANI telephone number. The ten digit ANI telephone number will be transmitted on all calls except those identified as multiparty line or ANI failure, in which case only the NPA will be transmitted (in addition to the information digit described below). Ten digit ANI is provided with multifrequency address signaling or SS7 Signaling.

(4) With Feature Group C, at the option of the customer, ANI may be ordered from end offices where Telephone Company recording for end user billing is not provided. Additionally, ANI is provided from end offices where message detail recording is not required by the Telephone Company, as with 800 series service. ANI is not provided from end offices where the Telephone Company forwards ANI to its recording equipment.

(C)

Effective Date: _____

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(F) Automatic Number Identification (ANI) (Cont'd)

- (5) Where complete ANI detail cannot be provided, e.g., on calls from 4 and 8 party services, information digits will be provided to the customer.

The information digits identify:

- (a) telephone number is the station billing number - no special treatment required,
- (b) multiparty line - telephone number is a 4- or 8- party line and cannot be identified - number must be obtained via an operator or in some other manner,
- (c) ANI failure has occurred in the end office switch which prevents identification of calling telephone number - must be obtained by operator or in some other manner,
- (d) hotel/motel originated call which requires room number identification,
- (e) coinless station, hospital, inmate, etc. call which requires special screening or handling by the customer, and
- (f) call is an Automatic Identified Outward Dialed (AIOD) call from customer premises equipment. The AIOD ANI telephone number is the listed telephone number of the customer and is not the telephone number of the calling party.

These ANI information digits are generally available with Feature Groups B, C, and D.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(F) Automatic Number Identification (ANI) (Cont'd)

(6) Additional ANI information digits are available with Feature Group D also. They include:

- (a) InterLATA restricted - telephone number is identified line
- (b) InterLATA restricted - hotel/motel line
- (c) InterLATA restricted - coinless, hospital, inmate, etc., line

These information digits will be transmitted as agreed to by the customer and the Telephone Company.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(G) Up to 7 Digit Outputpulsing of Access Digits to Customer

This option provides for the end office capability of providing up to 7 digits of the uniform access code (950-1/OXXX) to the customer designated premises. The customer can request that only some of the digits in the access code be forwarded. The access code digits would be provided to the customer designated premises using multifrequency signaling, and transmission of the digits would precede the forwarding of ANI if that feature were provided. This feature is available with Feature Group B.

(H) Delay Dial Start-Pulsing Signaling

Where available, this option provides a method of indicating to the near end trunk circuit readiness to accept address signaling information by the far end trunk circuit. Delay dial is often referred to as an off-hook, on-hook signaling sequence. The delay dial signal is the off-hook interval and the start-pulsing signal is the on-hook interval. With integrity check, the calling office will not output until a delay dial (off-hook) signal followed by a start-pulsing (on-hook) signal has been identified at the calling office. This option is available with Feature Group C.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(I) Immediate Dial Pulse Address Signaling

Where available, this option provides for the forwarding of dial pulses from the Telephone Company end office to the customer without the need of a start-pulsing signal from the customer. It is available with Feature Group C.

(J) Dial Pulse Address Signaling

Where available, this trunk side option provides for the transmission of number information, e.g., called number, between the end office switching system and the customer designated premises (in either direction) by means of direct current pulses. It is available with Feature Group C.

(K) Service Class Routing

This option provides the capability of directing originating traffic from an end office to a trunk group to a customer designated premises, based on the line class of service (e.g., coin, multiparty or hotel/motel), service prefix indicator (e.g., 0-, 0+, 01+ or 011+) or service access code (e.g., 900). It is provided in suitably equipped end office or access tandem switches. It is available with Feature Groups C and D.

(C)

Effective Date: _____

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(L) Alternate Traffic Routing

This option provides the capability of directing originating traffic from an end office (or appropriately equipped access tandem) to a trunk group (the "high usage" group) to a customer designated premises until that group is fully loaded, and then delivering additional originating traffic (the "overflowing" traffic) from the same end office or access tandem to a different trunk group (the "final" group) to a second customer designated premises. The customer shall specify the last trunk CCS desired for the high usage group. It is provided in suitably equipped end office or access tandem switches. It is available with Feature Groups C and D.

(M) Trunk Access Limitation

This option provides for the routing of originating 900 service calls to a specified number of transmission paths in a trunk group, in order to limit (choke) the completion of such traffic to the customer. Calls to the designated service which could not be completed over the subset of transmission paths in the trunk group, i.e., the choked calls, would be routed to reorder tone. It is provided in all Telephone Company electronic end offices and where available in electromechanical end offices. It is available with Feature Groups C and D.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(N) Call Gapping Arrangement

This option, provided in suitably equipped end office switches, provides for the routing of originating calls to 900 service to be switched in the end office to all transmission paths in a trunk group at a prescribed rate of flow, e.g., one call every five seconds, in order to limit (choke) the completion of such traffic to the customer. Calls to the designated service which are denied access by this feature, i.e., the choked calls, would be routed to a no-circuit announcement. It is provided in selected Feature Group D equipped end offices and is available only with Feature Group D.

(O) Held For Future Use

Effective Date: January 1, 1990

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(P) Band Advance Arrangement for Use with Special Access
Service Utilized in the Provision of WATS or WATS-
Type Services

This option, which is provided in association with two or more Special Access Service groups, provides for the automatic overflow of terminating calls to a second Special Access Service group, when the first group has exceeded its call capacity. This option is available with Feature Groups A, B, C and D.

(Q) End Office End User Line Service Screening for Use
with Special Access Service Utilized in the Provision
of WATS or WATS-Type Services

This option provides the ability to verify that an end user has dialed a called party address (by screening the called NPA and/or NXX on the basis of geographical bands selected by the Telephone Company) which is in accordance with that end user's service agreement with the customer, e.g., WATS. This option is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices which are designated as WATS Serving Offices. It is available with Feature Groups C and D.

(R) Hunt Group Arrangement for Use With Special Access
Service Utilized in the Provision of WATS or WATS-
Type Services

This option provides the ability to sequentially access one of two or more Special Access Services utilized in the provision of WATS services (e.g., 800 series Service Special access services) in the terminating direction, when the hunting number of the Special Access Service group is forwarded from the customer to the Telephone Company. This feature is provided in all Telephone Company designated WATS Serving Offices. It is available with Feature Groups A, B, C and D.

(C)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(S) Uniform Call Distribution Arrangement for Use with
Special Access Service Utilized in the Provision of
WATS or WATS-Type Services

This option provides a type of multiline hunting arrangement which provides for an even distribution of terminating calls among the available Special Access Services utilized in the provision of WATS or WATS-type Services in the hunt group. Where available, this feature is only provided in Telephone Company designated WATS Serving Offices. It is available with Feature Groups A, B, C and D.

(T) Nonhunting Number Associated with Hunt Group
Arrangement or Uniform Call Distribution Arrangement
for Use with Special Access Service Utilized in the
Provision of WATS or WATS-Type Services

This option provides an arrangement, for an individual Special Access Service utilized in the provision of WATS or WATS-type Services within a multiline hunt or uniform call distribution group, that provides access to that Special Access Service within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed, without hunting to the next idle number. Where available, this feature is only provided in Telephone Company designated WATS Serving Offices. It is available with Feature Groups A, B, C and D.

(U) Digital Switched 56 Service

This option provides for a connection between a customer's premise and a suitably equipped end user's premise which uses end office switching and facilities capable of transmitting digital data up to 56 Kilobits per second. Digital Switched 56 Service is only available in appropriately provisioned Feature Group D office as set forth in National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

(N)

(N)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(V) Multifrequency Address Signaling

(N)

Multifrequency Address Signaling is available as an optional feature with FGC and FGD. This feature provides for the transmission of number information and control signals (e.g., number address signals, automatic number identification) between the end office switch and the customer's premises (in either direction). Multifrequency signaling arrangements make use of pairs of frequencies out of a group of six frequencies. Specific information transmitted is dependent upon feature group and call type (i.e., POTS, coin or operator). This feature is not available in combination with SS7 signaling.

(W) Signaling System 7 (SS7) Signaling

This feature provides common channel out of band transmission of address and supervisory SS7 protocol signaling information between the end office switch or the tandem office switching system and the customer's designated premises. The signaling information is transmitted over facilities provided with the Common Channel Signaling/Signaling System 7 Interconnection Service as specified in 6.1.3(A)(3) preceding. This feature is available with FGC and FGD and will be provided in accordance with the SS7 Interconnect specifications described in Technical Reference TR-TSV-000905.

(X) Calling Party Number (CPN)

This feature provides for the automatic transmission of the ten digit directory number, associated with a calling station, to the customer's premises for calls originating in the LATA. The ten digit telephone number consists of the NPA plus the seven digit telephone number, which may or may not be the same number as the calling station's charge number. The ten digit telephone number will be coded as presented, or restricted via a "privacy indicator" for delivery to the called end user. This feature is provided with originating FGC and FGD with SS7 signaling. CPN is available where technically feasible.

(N)

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.1 Common Switching Nonchargeable Optional Features (Cont'd)

(Y) Carrier Selection Parameter (CSP)

This feature provides for the automatic transmission of a signaling indicator which signifies to the customer whether or not the call being processed originated from a presubscribed line. If the line was presubscribed, the indicator will signify if the end user did or did not dial 10XXX or 101XXXX. This feature is provided with originating FGD with SS7 signaling.

(C)

(Z) Charge Number Parameter (CN)

The CN Parameter is equivalent to the existing ten digit Automatic Number Identification (ANI) available with FGC where technically feasible and FGD with MF signaling. The CN Parameter provides for the automatic transmission of the ten digit billing number of the calling station and the originating line information. This feature is provided with originating FGC and FGD with SS7 signaling.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.2 Transport Termination Nonchargeable Optional Features

(A) Rotary Dial Station Signaling

This option provides for the transmission of called party address signaling from rotary dial stations to the customer designated premises for originating calls. This option is provided in the form of a specific type of Transport Termination. It is available with Feature Group B, only on a directly trunked basis.

(B) Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin

This option may be ordered to provide coin, non-coin, or combined coin and non-coin operation. It is available only with Feature Group C and is provided in electronic end offices and other Telephone Company end offices where equipment is available. It is provided as a trunk type of Transport Termination.

Coin, Non-Coin:

This arrangement provides for initial coin return control, except in the case of non-coin, and routing of 0+, 0-, 1+, 01+ or 011+ originating coin and non-coin calls requiring operator assistance to the customer designated promises. Because operator assisted coin calling traffic is routed over a trunk group dedicated to operator assisted calls, this arrangement is only provided in association with the Service Class Routing option.

This arrangement is normally ordered by the customer in conjunction with the ANI optional feature, since the preponderance of trunk groups equipped with this arrangement will be terminated in the customer's automated operator services systems, rather than in the customer's manual cord boards.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation Optional Features (Cont'd)

6.10.2 Transport Termination Nonchargeable Optional Features (Cont'd)

(B) Operator Trunk - Coin, Non-Coin, or Combined Coin and Non-Coin (Cont'd)

Combined Coin, Non-Coin:

When so equipped, the ANI optional feature provides for the forwarding of information digits which identify that the call has originated from a hotel or motel, and whether room number identification is required, or that special screening is required, e.g., for coinless public stations, dormitory or inmate stations, or other screening arrangements agreed to between the customer and the Telephone Company.

(C) Operator Trunk - Full Feature

This option provides the initial coin return control function to the customer's operator. It is available with Feature Group D and is provided as a trunk type for Transport Termination. This feature is not available with SS7 Signaling.

(C)
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Effective Date: January 3, 1994

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.3 Chargeable Optional Features

- Interim NXX Translation

This service is an originating offering utilizing trunk side Switched Access Service and provides a customer identification function based on the dialed SAC and NXX code.

For example, when an 1+800+NXX-XXXX or an 1+900+NXX-XXXX call is originated by an end user, the Telephone Company will perform the customer identification function based on the dialed digits to determine the customer location to which the call is to be routed. If the call originates from an end office switch not equipped to provide the customer identification function, the call will be routed to an office at which the function is available. Once customer identification has been established, the call will be routed to that customer. Calls originating from an end office switch at which the customer identification function is performed, but to which the customer has not ordered Interim NXX Translation, will be blocked. Calls to a 900 number from coin telephones, 0+, 0-, 10XXX or 101XXXX, Inmate Service, Hotel/Motel Service and calling card calls will be blocked.

(C)

The manner in which Interim NXX Translation is provided is dependent on the status of the end office from which the service is provided (i.e., equipped with equal access capabilities or not equipped with equal access capabilities). When Interim NXX Translation is provided from an end office not equipped with equal access capabilities, it will be provided in conjunction with FGC Switched Access Service.

The charge for Interim NXX Translation is as set forth in 17.2.1(C) following.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.4 Common Channel Signaling/Signaling System 7 Network
Connection Service (CCSNC)

(N)

Common Channel Signaling/Signaling System 7 (CCS/SS7) Network Connection Service (CCSNC), which is available with Feature Group C and D, where technically feasible as designated in NATIONAL EXCHANGE CARRIER ASSOCIATION INC. TARIFF FCC NO. 4, WIRE CENTER INFORMATION, provides a signaling path between a customer's designated Signaling Point of Interface (SPOI) and a Signaling Transfer Point (STP). This service provides customers with the use of a two-way signaling path for accessing information necessary for the completion of their end user's calls.

CCS/SS7 Network Connection Service is comprised of two rate elements; a Signaling Network Access Link (SNAL) and a Signaling Transfer Point (STP) Port. The SNAL is provided as a dedicated 56 Kbps out-of-band signaling connection between the customer's SPOI and the STP port on the STP.

The CCS/SS7 Network Connection Service is provisioned by a mated pair of STPs as described in Technical Reference TR-TSV 000905 in order to ensure network availability and reliability. The Telephone Company shall not be held liable for service outages if the customer employs technology related to the interconnection of signaling networks that does not adhere to generally accepted industry technical standards.

When CCS/SS7 Network Connection service is provisioned for use with SS7 Signaling, interconnection between signalling networks must occur at an STP.

Rates and charges for the CCS/SS7 Network Connection STP Ports and Signaling Network Access Links are contained in 17.2.2 following.

(N)

Effective Date: January 3, 1994

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.10 Common Switching, Transport Termination and Interim NXX Translation
Optional Features (Cont'd)

6.10.5 800 Data Base Access Service

800 Data Base Access Service is provided with FGC or FGD switched access service. When a 1+800series+NXX-XXXX call is originated by an end user, the Telephone Company will utilize the Signalling System 7 (SS7) network to query an 800 data base to perform the identification function. The call will then be routed to the identified customer over FGC or FGD switched access. The 800 series includes the following service area codes: 800, 888, 877, 866, 855, 844, 833 and 822.

(C)

(N)

|
(N)

The manner in which 800 data base access service is provided is dependent on the availability of SS7 service at the end office from which the service is provided as outlined following:

- When 800 data base access service originates at an end office equipped with Service Switching Point (SSP) capability for querying centralized data bases, all such service will be provisioned from that end office.
- When 800 data base access service originates at an end office not equipped with SSP customer identification capability, the 800 call will be delivered to the access tandem on which the end office is homed and which is equipped with the SSP feature to query centralized data bases.

Query charges as set forth in 17.2.2 following are in addition to those charges applicable for the Feature Group C or Feature Group D switched access service.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service

A. General

1. Switched Access Service provides for use of common terminating, switching and trunking facilities and unshared subscriber plant (i.e., WATS access lines).
2. Design Layout Reports as set forth in 6.1.5 will also be provided for WATS Access Lines when specifically requested by the customer.
3. Rate Categories

The following rate categories apply at the end office when WATS is treated as switched access service.

- (a) Carrier Common Line (described in Section 3 preceding and Section 6.11.G following)
- (b) Transport
 - (1) Local transport for the WATS Access Lines optional feature will be measured between the end office and the POC.
- (c) End Office (described in 6.1.3(B) preceding)

B. Provision and Description

Switched Access Service is provided in four different Feature Group arrangements. The provision of each Feature Group requires Transport facilities and the appropriate End Office functions. In addition, WATS Access Lines may, at the option of the customer, be provided for use with Feature Groups C and D.

1. Feature Group C (FGC)

- a. A WATS Access Line may, at the option of the customer, be provided for use with FGC Switched Access Service.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

B. Provision and Description (Cont'd)

1. Feature Group C (FGC) (Cont'd)

a. (Cont'd)

A WATS Access Line provides a connection between a customer's designated end user's premises and a Telephone Company end office switch capable of performing the necessary screening functions for 800 Service, WATS or similar services and is provided only for use at the closed end of such services. WATS Access lines are arranged for either originating calling only or terminating calling only. They are provided with rotary dial or dual tone multifrequency address signaling and either loop start or ground start supervisory signaling. The choice of the type of signaling is at the option of the customer.

WATS Access Lines are provided as either an effective two-wire or effective four-wire transmission path. Each transmission path is provided with Standard Transmission Specifications and Data Transmission Parameters as set forth in 15.1.2(H), and 15.1.3(C) following. At the option of the customer, the WATS Access Line may be ordered with the Improved Two-Wire Voice Transmission Specifications (guaranteed specifications are set forth in 15.1.4 following).

The WATS Access Line Optional feature for FGC may be ordered separately by a customer other than the customer which orders the FGC Switched Access Service (i.e., a provider of MTS and WATS). WATS Access Lines are ordered as set forth in 5.2 preceding.

b. WATS Access Lines Optional Features -Common Switching -FGC

- (1) End Office End User Line Service Screening for use with WATS Access Lines
- (2) Hunt Group Arrangement for Use with WATS Access Lines
- (3) Uniform Call Distribution Arrangement for Use with WATS Access Lines
- (4) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Lines
- (5) Band Advance Arrangement for Use with WATS Access lines

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

B. Provision and Description (Cont'd)

2. Feature Group D (FGD)

- a. A WATS Access Line may, at the option of the customer, be provided for use with FGD Switched Access Service. A WATS Access Line provides a connection between a customer's designated end user's premises and a Telephone Company end office switch capable of performing the necessary (T) screening functions for 800 Service, WATS or similar services and is provided only for use at the closed end of such services.

WATS Access Lines are arranged for either originating calling only or terminating calling only. They are provided with rotary dial or dual tone multifrequency address signaling and either loop start or ground start supervisory signaling. The choice of the type of signaling is at the option of the customer.

WATS Access Lines are provided as either an effective two-wire or effective four-wire transmission path. Each transmission path is provided with Standard Transmission Specifications and Data Transmission Parameters as set forth in 15.1.2.(H), and 15.1.3(C) following. At the option of the customer, the WATS Access Line may be ordered with the Improved Two-Wire Voice Transmission Specifications (guaranteed specifications are set forth in 15.1.4 following).

The WATS Access Line Optional feature for FGD may be ordered separately by a customer other than the customer which orders the FGC Switched Access Service. WATS Access Lines are ordered as set forth in 5.2 preceding.

- b. WATS Access Lines Optional Features - Common Switching - FGD
 - (1) End Office End User Line Service Screening for Use with WATS Access Lines
 - (2) Hunt Group Arrangement for Use with WATS Access Lines
 - (3) Uniform Call Distribution Arrangement for Use with WATS Access Lines
 - (4) Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Lines
 - (5) Band Advance Arrangement for Use with WATS Access Lines

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

C. Common Switching Nonchargeable Optional Features

1. Band Advance Arrangement for Use with WATS Access Lines

This option, which is provided in association with two or more WATS Access Line groups, provides for the automatic overflow of terminating calls to a WATS Access Line group, when that group has exceeded its call capacity, to another WATS Access Line Group with a band designation equal to or greater than that of the overflowing WATS Access Line group. This arrangement does not provide for call overflow from a group with a higher band designation to one with a lower one. This option is available with Feature Groups C and D.

2. End Office End User Line Service Screening for Use with WATS Access Lines

This option provides the ability to verify that an end user has dialed a called party address (by screening the called NPA and/or NXX on the basis of geographical bands selected by the Telephone Company) which is in accordance with that end user's service agreement with the customer, e.g., WATS. This option is provided in all Telephone Company electronic end offices and, where available, in electromechanical end offices in which WATS Access Lines are provided. It is available with Feature Groups C and D.

3. Hunt Group Arrangement for Use with WATS Access Lines

This option provides the ability to sequentially access one of two or more WATS Access Lines (e.g., 800 Service access lines) in the terminating direction, when the hunting number of the WATS Access Line Service group is forwarded from the customer to the Telephone Company. This feature is provided in all Telephone Company end offices in which WATS Access Lines are provided. It is available with Feature Groups C and D.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

C. Common Switching Nonchargeable Optional Features (Cont'd)

4. Uniform Call Distribution Arrangement for Use with WATS Access Lines

This option provides a type of multiline hunting arrangement which provides for an even distribution of terminating calls among the available WATS Access Lines in the hunt group. Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Access Lines are provided. It is available with Feature Groups C and D.

5. Nonhunting Number for Use with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with WATS Access Lines

This option provides an arrangement for individual WATS Access Lines within a multiline hunt or uniform call distribution group that provides access to that WATS Access Lines within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed. Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Access Lines are provided. It is available with Feature Groups C and D.

D. Transmission Specifications

Each Switched Access Service transmission path is provided with standard transmission specifications. There are three different standard specifications (Types A, B and C). The standard for a particular transmission path is dependent on the Feature Group, the Interface Group and whether the service is directly routed or via an access tandem. In addition, the WATS Access Line is provided with standard transmission specifications for two-wire and four-wire. The available transmission specifications are set forth in 15.1.2 following. Data transmission Parameters are also provided with each Switched Access Service transmission path and WATS Access Line. The Telephone Company will, upon notification by the customer that the data parameters set forth in 15.1.3(A), 15.1.3(B), or 15.1.3.(C) are not being met, conduct tests independently or in cooperation with the customer, and take any necessary action to insure that the data parameters are met. In addition, the WATS Access Line may be optionally provided with Improved Two-Wire Voice Transmission Specifications as set forth in 15.1.4 following.

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

E. Application of Rates for WATS Access Lines Extension Service

Feature Group C and D WATS Access Lines are available with extensions, i.e., additional terminations of the service at different building(s) in the same or a different LATA. WATS Access Line extensions in the same or different LATAs are provided and charged for as Special Access Service. The rate elements which apply are: A Voice Grade Channel Termination, Channel Mileage, if applicable, and Signaling Capability (optional features and functions), if applicable. All appropriate monthly rates and nonrecurring charges set forth in 7.7 following will apply.

F. The application of these provisions for treatment of WATS Access Lines as an option of Switched Access Service is at the discretion of the telephone company. The use of these rules precludes the telephone company from applying the rules and regulations as set forth in Section 7, Special Access to WATS Access Lines.

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ACCESS SERVICES

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services

1. Carrier Common Line

- (a) Where the customer is reselling outward WATS, and/or WATS-type service(s) on which the Carrier Common Line and Switched Access Charges have been assessed, the customer may, at the option of the customer, employ ordinary local business exchange service at generally applicable local business exchange rates under the Telephone Company general and/or local exchange tariffs as long as PEC/SEC arrangements as described in Section 6.4.1(C)(7) preceding apply. Switched Access or Carrier Common Line Access Charges under this tariff will not apply for such access. If the customer wishes to obtain special arrangements such as trunk side service connections for such resale, the customer may, at the option of the customer, obtain Switched Access Service under this tariff as set forth in Section 6 preceding except that Carrier Common Line Access charges will not apply for such access.
- (b) When access to the local exchange is required to provide a WATS-type service using a resold Private Line Service, Switched Access Service Rates and Regulations, as set forth in 6. preceding will apply. Carrier Common Line Access rates and charges as set forth in 17.1.1 following, apply in accordance with the regulations following.
- (c) Where a multiline hunt group or trunk group arrangement is made up of (1) Feature Group A Switched Access Service arrangements and, as provided in (a) preceding, local exchange business lines used in association with outward or inward WATS and/or WATS-type services and/or (2) Feature Group A Switched Access Service arrangements and other access arrangements associated with inward WATS and/or WATS-type services and/or (3) Feature Group B or Feature Group D Switched Access Service arrangements and, as provided in (a) preceding, other access arrangements used in association with outward WATS and/or WATS-type services, Carrier Common Line Access Charges for such combined access arrangements recalculated in accordance with the regulations in (f) following.

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ACCESS SERVICES

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services (Cont'd)

1. Carrier Common Line (Cont'd)

- (d) When the customer orders combined access as set forth in (c) preceding, the customer will be charged the Carrier Common Line Access charges in accordance with the regulations as set forth in (f) following if the customer or the provider of the WATS service furnishes documentation of the WATS usage and/or the customer furnishes documentation of the WATS-type service. Such documentation supplied by the customer shall be supplied each month as set forth in (2)(a) following.
- (e) When the customer orders Switched Access Service as set forth in (d) preceding, the Telephone Company or the billing entity may request when resold WATS is involved, a certified copy of the customer's WATS usage billing from either the customer or the provider of the WATS Service and/or when resold WATS-type service is involved, a certified copy of customer's WATS-type usage billing from either the customer or the provider of the WATS-type service. The requests for this billing will relate back no more than 12 months prior to to the current billing period.
- (f) When the customer orders a combined access group to be used in conjunction with the resale of WATS and/or WATS-type services as set forth in (c) preceding, and the billing entity receives the usage information required to calculate the proration of Carrier Common Line as set forth in (d) preceding, the customer will be billed as set forth in (1), (2) or (3) following.

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ACCESS SERVICES

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services (Cont')

1. Carrier Common Line (Cont'd)

(f) (Cont'd)

When more than one combined access group is provided in a LATA in association with the resale of outward WATS and/or WATS-type services, the billing entity will apportion the resold outward WATS and/or WATS-type services and originating minutes of use among the combined access groups. Such apportionment will be based on the relationship of the originating usage for each combined access group to the total originating usage for all combined access groups in the LATA. The involved resold minutes shall be only intrastate outward, WATS and WATS-type minutes and shall not include collect, third number, credit card or intrastate minutes of use.

In order for the rate regulations to apply as set forth in (1), (2) or (3) following, the combined access group and the resold outward WATS and/or WATS-type services must be provided in the same LATA, provided by the same Telephone Company and connected directly or indirectly.

When more than one access group is provided in a LATA in association with the resale of inward WATS and/or billing entity will apportion the resold inward WATS and/or WATS-type services and terminating minutes of use among the access groups. Such apportionment will be based on the relationship of the terminating usage for each access group to the total terminating usage for all access groups in the LATA. The involved resold minutes shall be only intrastate inward WATS and WATS-type minutes.

In order for the rate regulations to apply as set forth in (1), (2) or (3) following, the access groups and the resold inward WATS and/or WATS-type services must be provided in same exchange, provided by the same Telephone Company and connected directly or indirectly.

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ACCESS SERVICES

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services (Cont'd)

1. Carrier Common Line (Cont'd)

(f) (Cont'd)

Each of the combined access group arrangements used by the customer in association with the resold WATS and/or WATS-type services must be connected either directly or indirectly to the customer's designated premises at which the resold WATS and/or WATS-type services are terminated. Direct connections are those arrangements where the combined access groups and resold WATS and/or WATS-type services are terminated at different customer designated premises.

Indirect outward connections are those arrangements where the combined access groups and resold outward WATS and/or WATS-type services are terminated at different customer designated premises in the same LATA. Such different customer designated premises are connected by facilities that permit a call to flow from combined access groups to resold outward WATS and/or WATS-type services.

Indirect inward connections are those arrangements where the combined access groups and resold inward WATS and/or WATS-type services are terminated at different customer designated premises in the same LATA. Such different customer designated premises are connected by facilities that permit a call to flow from resold inward WATS and/or WATS-type services to combined access groups.

The adjustments as set forth following will be computed separately for each combined access group.

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ACCESS SERVICES

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services (Cont'd)

1. Carrier Common Line (Cont'd)

(f) (Cont'd)

- (1) Combined Access Groups-Non Equal Access Offices Only
- Transitional Usage Rated Combined Access Groups - Interlata

When all the Interlata usage on a combined access group originates from and/or terminates at end offices that have not been converted to equal access, the following regulations apply:

- (i) The Non Premium Access Charge per minute as set forth in 17.1 following will apply. The minutes billed Carrier Common Line Access Service charges will be the terminating intrastate Interlata minutes plus the adjusted originating intrastate interlata access minutes for such combined access groups. The adjusted terminating access minutes will be the terminating intrastate access minutes less the reported resold inward WATS and/or WATs-type service minutes of use; but not less than zero. The adjusted originating access minutes will be the originating intrastate interlata access minutes less the reported resold outward WATS and/or WATs-type service minutes of use; but not less than zero.
- (ii) One line side Switched Access Service for each resold outward WATS and/or WATS-type service reported as set forth in (d) preceding will be billed local business exchange service rates as set forth in 6.7.3(D)(1)(b)(i) following.

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ACCESS SERVICES

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services (Cont'd)

1. Carrier Common Line (Cont'd)
(f) (Cont'd)

(1) Combined Access Groups-Non Equal Access Offices Only
(Con't)

Transitional Usage Rated Combined Access Groups - Interlata(Cont'd)

(iii) For line side Switched Access Service, the adjusted originating access minutes determined as set forth in (i) preceding and all the terminating access minutes will be billed Switched Access Service as set forth in 6.7.3(D)(1)(b)(ii) following.

(iv) Any trunk side Switched Access Service provided will be billed Switched Access Service as set forth in 6.7.3(D)(1)(b) (iii) following

(2) Combined Access Groups - Equal Access Offices Only

Premium Usage Rated Combined Access Groups

When all the usage on a combined access group originates from and/or terminates at end offices that have been converted to equal access, the following regulations apply:

- (a) The Premium Access Charge per minute as set forth in 17.1 following will apply. The minutes billed Carrier Common Line Access Service charges will be the terminating intrastate access minutes and the adjusted originating intrastate access minutes for such combined access groups. The adjusted terminating access minutes will be the terminating intrastate access minutes less the reported resold inward intrastate access minutes WATS and/or WATS-type service minutes of use; but not less than zero.

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ACCESS SERVICES

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services (Cont'd)

1. Carrier Common Line (Cont'd)

(f) (Cont'd)

(2) Combined Access Groups - Equal Access Office Only
(Cont'd)

Premium Usage Rated Combined Access Groups
(Cont'd)

(a) (Cont'd)

The adjusted originating access minutes will be the originating intrastate access minutes less the reported resold outward intrastate access minutes less the reported resold outward intrastate access minutes less the reported resold outward WATS and/or WATS-type service minutes of use; but not less than zero.

(b) One line side Switched Access Service for each resold outward WATS and/or WATS-type service reported as set forth in (d) preceding will be billed local business exchange service rates as set forth in 6.7.3(D)(2)(a) following.

(c) For line side Switched Access Service, the adjusted originating access minutes determined as set forth in (a) preceding and all the terminating access minutes will be billed Switched Access Service as set forth in 6.7.3(D)(2)(b) following.

(d) Any trunk side Switched Access Service provided will be billed Switched Access Service as set forth in 6.7.3(D)(2)(b) following.

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ACCESS SERVICES

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services (Cont'd)

1. Carrier Common Line (Cont'd)
(f) (Cont'd)

(3) Combined Access Groups - Non-Equal Access and Equal Access Offices

(a) Transitional Usage Rated Combined Access Groups

When a combined access group has usage that originates from and/or terminates at both end offices that have been converted to equal access and end offices that have not been converted, the following regulations apply.

- (i) The Non-Premium Access Charge as set forth in (1) preceding applies to non premium access minutes.

The adjusted originating access minutes and the adjusted terminating access minutes will be apportioned between premium and non premium access minutes using end-office specific usage data when available, or when usage data are not available, the premium and non premium ratios developed as set forth in 6.7.1(D)(4) preceding. The Premium and Non Premium per minute charges set forth in 17.1 following will apply as appropriate to the premium and non premium access minutes determined in this manner.

- (ii) One line side Switched Access Service for each resold outward WATS and/or WATS-type service reported as set forth in (d) preceding will be billed local business exchange service rates as set forth in 6.7.3(D)(3)(b)(i) preceding.

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ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services (Cont'd)

1. Carrier Common Line (Cont'd)

(f) (Cont'd)

3) Combined Access Groups - Non-Equal Access and equal Access Offices (Cont'd)

(a) Transitional Usage Rated Combined Access Groups (Cont'd)

(iii) For line side Switched Access Service, the adjusted originating access minutes determined as set forth in (i) preceding and all the terminating access minutes will be billed Switched Access Service as set forth in 6.7.3(D)(3)(b)(ii) following.

(iv) Any trunk side Switched Access Service provided will be billed Switched Access Service as set forth in 6.7.3(D)(3)(b)(iii) following.

(4) The adjustment as set forth in (1), (2) and (3) preceding will be made to the involved customer account no later than either the next bill date, or the one subsequent to that, depending on when the usage report is obtained.

(5) When the WATS-type and/or WATS usage is shown in hours, the number of hours shall be multiplied by 60 to develop the associated WATS-type and WATS minutes of use. If the WATS-type and/or WATS usage is shown in a unit that does not show hours or minutes, the customer shall provide a factor to convert the shown units to minutes.

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ACCESS SERVICES

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services (Cont'd)

1. Carrier Common Line (Cont'd)

- (g) The adjustment as set forth in (1), (2) and (3) preceding will be made to the involved customer account after making the adjustments to the customer account as set forth in 3.8.4 preceding (PIU).

2. Switched Access

When the customer orders combined access to be used in conjunction with the resale of WATS and/or WATS-type services as set forth in 1(c) preceding, and the Telephone Company receives the usage information required to calculate the proration of Carrier Common Line as set forth in 1(d) preceding, the following regulations apply.

- (a) Documentation requirements for resold services are set forth following. Such documentation shall be supplied each month and shall identify the involved resold WATS and/or WATS-type services. The monthly period used to determine the minutes of use per resold WATS and/or WATS-type services shall be the most recent monthly period for which the customer has received a bill for such resold WATS and/or WATS-type services. This information shall be delivered to the Telephone Company, at a location specified by the Telephone Company, no later than 15 days after the bill date shown on the resold WATS and/or WATS-type service bill. If the required information is not received by the Telephone Company, the previously reported information as described in 1(d) preceding will be used for the next two months. For any subsequent month no allocation or credit will be made until the required documentation is delivered to the Telephone Company by the customer. The rate treatment set forth in (b) following will not apply in these cases.

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ACCESS SERVICES

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services (Cont'd)

2. Switched Access (Cont'd)

- (b) When combined access groups are provided, they will be billed as set forth in (1), (2) or (3) following. When more than one combined access group is provided in a LATA, the Telephone Company will determine the minutes of use for each of the combined access groups as set forth in 1 (f) preceding.

(1) Combined Access Groups - Non Equal Access Office Only

(a) Transitional Usage Rated Combined Access Groups

When all the interlata usage on a combined access group originates from and/or terminates at end offices that have not been converted to equal access, the following regulations apply:

- (i) Each line side Switched Access Service provided as set forth in (1)(f)(ii) preceding will be billed at local business exchange service rates as set forth in (4) following.
- (ii) Transitional Switched Access Service rates as set forth in 17.2 following will be billed for all the terminating intrastate access minutes and the adjusted originating access minutes for line side combined access groups. The adjusted originating access minutes will be the originating intrastate access minutes less the reported resold outward WATS and/or WATS-type service minutes of use; but not less than zero.

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ACCESS SERVICES

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services (Cont'd)

2. Switched Access (Cont'd)

(g) (Cont'd)

(1) Combined Access Groups - Non Equal Access Offices Only
(Cont'd)

(a) Transitional Usage Rated Combines Access Groups (Cont'd)

(iii) For trunk side Switched Access Service provided in combined access group, the minutes billed will be all the terminating and originating interstate access minutes for such combined groups. Transitional Switched Access Service rates as set forth in 17.2 following will be billed for all such access minutes.

(2) Combined Access Groups - Equal Access Office Only

Premium Usage Rated Combined Access Groups

When all the usage on a combined access group originates from and/or terminates at end offices that have been converted to equal access, the following regulations apply:

- (a) Each line side Switched Access Service provided as set forth in 1(f)(2)(b) preceding will be billed at local business exchange service rates as set forth in (4) following:

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ACCESS SERVICES

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services (Cont'd)

2. Switched Access (Cont'd)

(g) (Cont'd)

(2) Combined Access Groups - Equal Access Offices Only
(Cont'd)

Premium Usage Rated Combined Access Groups (Cont'd)

- (b) Premium Switched Access Service rates will apply for the line side and trunk side combined access groups as follows.

For line side Switched Access Service provided in a combined access group, the minutes billed will be all the terminating intrastate access minutes and the adjusted originating intrastate access minutes for such combined access groups. The adjusted originating minutes will be the originating intrastate access minutes less the reported resold outward WATS and/or WATS-type service minutes of use; but not less than zero.

For trunk side Switched Access Service provided in a combined access group, the minutes billed will be all the terminating and originating intrastate access minutes for such combined groups.

The rates that apply for the line side Switched Access Service and/or the trunk side Switched Access Service minutes will be the Premium Switched Access Service rates as set forth in 17.2 following.

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ACCESS SERVICES

6. Switched Access Service (Cont'd)

6.11. Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services (Cont'd)

2. Switched Access (Cont'd)

(g) (Cont'd)

(3) Combined Access Groups - Non Equal Access and Equal Access Offices

(a) Transitional Usage Rated Combined Access Groups

When a combined access group has interlata usage that originates from and/or terminates at both end offices that have been converted to equal access and end offices that have not been converted, the following regulations apply:

- (i) Each line side Switched Access Service provided as set forth preceding will be billed at local business exchange service rates as set forth in (4) following.
- (ii) In addition, Switched Access Service rates as set forth in 17.2 following will be billed for all the terminating intrastate access minutes and the adjusted originating intrastate access minutes in line side combined access groups. The adjusted originating access minutes will be the originating intrastate access minutes less the reported resold outward WATS and or WATS-type service minutes of use; but not less than zero.

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ACCESS SERVICES

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services (Cont'd)

2. Switched Access (Cont'd)

(g) (Cont'd)

(3) Combined Access Groups - Non Equal Access and Equal Access Offices (Cont'd)

(ii) (Cont'd)

The adjusted originating access minutes and all terminating access minutes will be apportioned between premium and non-premium access minutes using end office specific usage data when available, or when usage data are not available, the premium and non premium ratios developed as set forth in 6.4.1(C)(7) preceding. The Premium and Transitional usage charges set forth in 17.2 following will apply as appropriate to the premium and non-premium access minutes determined in this manner.

(iii) Further, Switched Access Service rates as set forth in 17.2 following will be billed for all the terminating intrastate access minutes and all the originating intrastate access minutes in trunk side combined access groups.

The originating and terminating access minutes in trunk side combined access groups will be apportioned between premium and non-premium access minutes using the premium and non-premium access minutes using the premium and non-premium ratios developed as set forth in 6.4.1(C)(7) preceding. The premium and non-premium usage charges set forth in 17.2 following will apply as appropriate to the premium and non-premium access minutes determined in this manner.

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ACCESS SERVICES

6. Switched Access Service (Cont'd)

6.11 Treatment of WATS Access Lines as an Option of Switched Access Service (Cont'd)

G. Resale of WATS and WATS-Type Services (Cont'd)

2. Switched Access (Cont'd)

(g) (Cont'd)

(3) Combined Access Groups - Non Equal Access and Equal Access Offices (Cont'd)

(a) Transitional Usage Rated Combined Access Groups (Cont'd)

(4) The adjustments set forth in (1), (2) and (3) preceding will be made to the involved customer account no later than either the next bill date or the one subsequent to that, depending on when the usage data is obtained.

(5) When resold WATS and/or WATS-type service usage is shown in hours, the number of hours shall be multiplied by 60 to develop the resold WTS and/or WATS-type service minutes of use. If the resold WATS and/or WATS-type service usage is shown in a unit other than hours or minutes, the customer shall provide a factor to convert that unit to minutes.

(b) When combined access is provided, the Telephone Company may request WATS or WATS-type service usage for which the customer was billed. For WATS service, the usage may be requested from either the customer or the provider of the WATS service. For WATS-type service, the usage will be requested from the customer. The requests for this information will relate back no more than 12 months prior to the current billing period.

6.12 Intralata Foreign Exchange Service

For Intralata Foreign Exchange (FX) service, the local portion (closed end) will be subject to exchange charges, rules and regulations as set forth in the Telephone Company local exchange tariff. For the interexchange portion of the service, the special access charges, rules and regulations (section 7) will apply.

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ACCESS SERVICE

7. Special Access Service

7.1 General

Special Access Service provides a transmission path to connect customer designated premises*, directly, through a Telephone Company hub or hubs where bridging or multiplexing functions are performed, or to connect a customer designated premises and a WATS Serving Office.** Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

Special Access Service charges, rules and regulations following apply to the interexchange portion of an Intralata Foreign Exchange (FX) Service. The local loop portion of such FX service is subject to the exchange charges, rules and regulations as set forth in the Telephone Company local exchange tariff.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

7.1.1 Channel Types

There are seven types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

- Transmission specifications,
- Bandwidth,
- Speed (i.e., bit rate),
- Spectrum

Customers can order a basic channel and select from a list of those available transmission parameters and channel interfaces that they desire in order to meet specific communications requirements.

* Telephone Company Centrex CO and CO-like switches and packet switches included in Public Packet Switching Network (PPSN) Service are considered to be a customer designated premises for purposes of this tariff.

** References to WATS in Section 7 apply if the Telephone Company has optioned to treat WATS access as part of Special Access Service. Otherwise, WATS will be treated as Switched Access Service as set forth in 6.11 preceding.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Service Descriptions

For the purposes of ordering, there are seven categories of Special Access Service. These are:

Service Designator Codes

Metallic	MT
Telegraph Grade	TG
Voice	VG
Program Audio	AP
Video	TV
Digital Data	DA
High Capacity	HC

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Technical specifications packages are described in Section 15. following, optional features and functions are described in this section. Channel interfaces are described in 15.2 following.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be advised and given the opportunity to change the order.

The channel descriptions provided in 7.4 through 7.10 following, specify the characteristics of the basic channel and indicate whether the channel is provided between customer designated premises, between a customer designated premises and a Telephone Company hub where bridging or multiplexing functions are performed, between hubs, or between a customer designated premises and a WATS Serving Office.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Service Descriptions (Cont'd)

(E) The Telephone Company will maintain services installed prior to April 1, 1985, at their existing transmission specifications provided such performance specifications do not exceed the standards listed in this provision. Those services exceeding the standards listed will be maintained at the performance levels specified in this tariff.

(F) All services installed after April 1, 1985 will conform to the transmission specifications standards contained in this tariff or in the following Technical References for each category of service:

Metallic	TR-NPL-000336	
Telegraph Grade	TR-NPL-000336	
Voice Grade	TR-TSY-000335	(T)
	PUB 41004, Table 4	
Program Audio	TR-NPL-000337 and associated Addendum	(T)
Video	TR-NPL-000338	
Digital Data	TR-NPL-000341 and associated Addendum	(T)
	PUB 62310	
High Capacity	TR-TSY-000342	(T)
	PUB 62411	

7.1.3 Service Configurations

There are two types of service configurations over which Special Access Services are provided: two-point service and multipoint service.

(A) Two-Point Service

A two-point service connects two customer designated premises, either on a directly connected basis or through a hub where multiplexing functions are performed, or a customer designated premises and a WATS Serving Office (WSO).

Applicable rate elements are:

- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features and Functions (when applicable)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

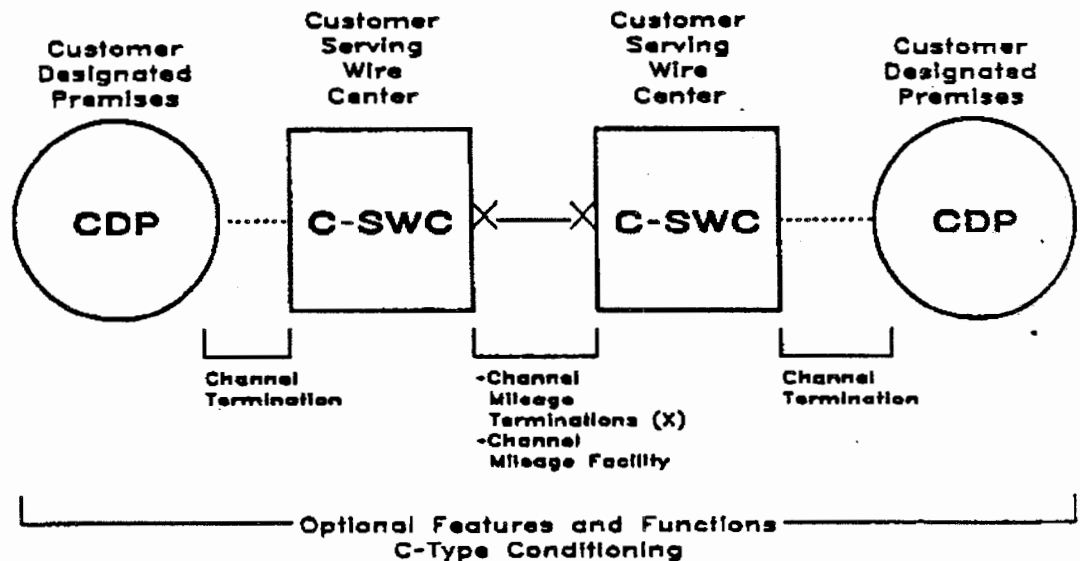
7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(A) Two-Point Service (Cont'd)

A special Access Surcharge, as set forth in 7.3 following, may be applicable.

The following diagram depicts a two-point Voice Grade service connecting two Customer Designated Premises (CDP). The service is provided with C-Type conditioning.



Applicable rate elements are:

- Channel Terminations (applicable one (1) per CDP)
- Channel Mileage
 - 2 Channel Mileage Terminations plus
 - 1 section, Channel Mileage Facility per mile
- C-Type Conditioning Optional Feature

Effective Date: January 1, 1990

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ACCESS SERVICE

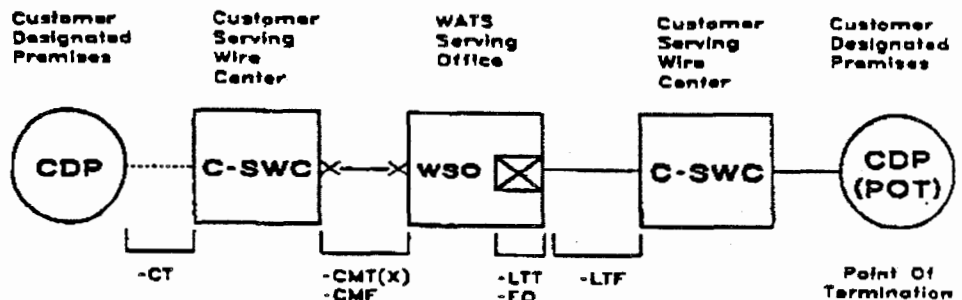
7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(A) Two-Point Service (Cont'd)

The following diagram depicts a two-point Voice Grade service connecting a customer designated premises to a WATS serving office.



Special Access

CT - Channel Termination
CMT - Channel Mileage Termination
CMF - Channel Mileage Facility

Switched Access

LTT - Local Transport Termination
EO - End Office elements
LTF - Local Transport Facility

Applicable rate elements for Special Access are:

- Channel Termination
- Channel Mileage
 2 Channel Mileage Terminations plus
 1 section, Channel Mileage Facility per mile
- Special Access Surcharge*

* May not apply if exemption certification is provided.

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(B) Multipoint Service

Multipoint service connects three or more customer designated premises through one or more Telephone Company hubs. Only certain types of Special Access Service are provided as multipoint service. These are so designated in the descriptions for the appropriate channel.

The channel between hubs (i.e., bridging locations) on a multipoint service is a mid-link. There is no limitation on the number of mid-links available with a multipoint service. However, when more than three mid-links in tandem are provided the quality of the overall service may be degraded.

Multipoint service utilizing a customized technical specifications package, as set forth in 7.1.2 preceding and 15.2 following, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will specify the desired bridging hub(s). WISCONSIN ACCESS CHARGE TARIFF P.S.C. NO. 2 identifies serving wire centers, hub locations and the type of bridging functions available.

Applicable Rate Elements are:

- Channel Terminations (one per customer designated premises)
Channel Mileage (as applicable between the serving wire center for each customer designated premises and the hub and between hubs).
- Bridging
- Additional Optional Features and Functions (when applicable).

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ACCESS SERVICE

7. Special Access Service (Cont'd)

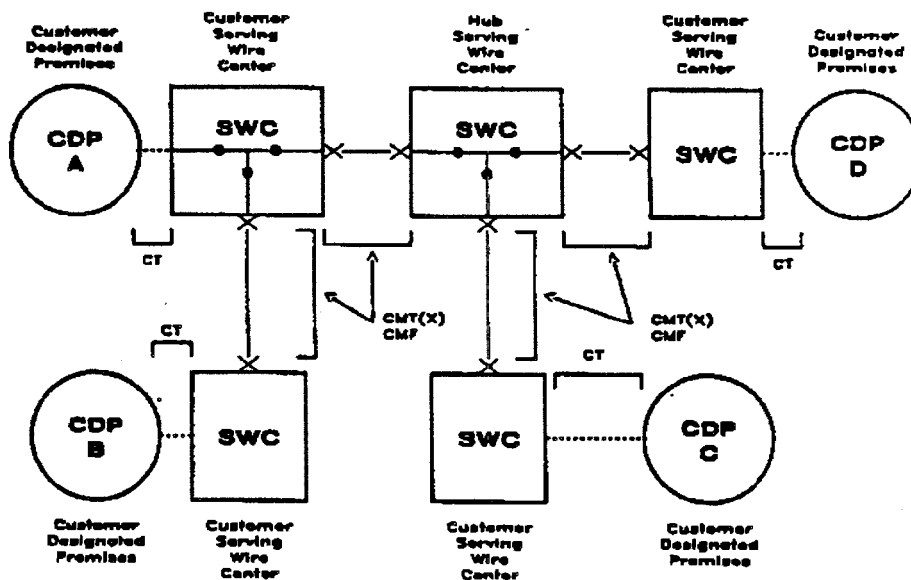
7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)

The Special Access Surcharge, as set forth in 7.3 following, may be applicable.

Example: Voice Grade multipoint service connecting four customer designated premises (CDP) via two customer specified bridging hubs.



CT - Channel Termination
CMT - Channel Mileage Termination
CMF - Channel Mileage Facility
■ - Bridging Port

Applicable rate elements are:

- Channel Terminations (4 applicable)
- Channel Mileage
 - o 2 Channel Mileage Terminations per Channel Mileage Facility section for a total of 8 plus
 - o 4 sections, Channel Mileage Facility per mile
- Bridging Optional Feature (6 applicable, i.e., each bridge port)

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.4 Alternate Use

Alternate Use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an individual case basis.

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis and filed in Section 12. following, Specialized Service or Arrangements. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered [i.e., Channel Terminations, Channel Mileage (as applicable) and Optional Features and Functions (if any)].

7.1.5 Special Facilities Routing

A customer may request that the facilities used to provide Special Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are set forth in Section 11. following.

7.1.6 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the make-up of the facilities and services provided under this tariff as Special Access Service to aid the customer in designing its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.7 Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test the following at the time of installation:

- (A) For Voice Grade analog services, the acceptance test will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise, and C-message noise when these parameters are applicable and specified in the order of service. Additionally, for Voice Grade services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.
- (B) For other analog services (i.e., Metallic, Telegraph, Program Audio, and Video) and for digital services (i.e., Digital Data and High Capacity), acceptance tests will include tests applicable to the service as specified by the customer in the order for service.

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade service to test other parameters, as described in 13.3.1(B) following, is available at the customer's request. All test results will be made available to the customer upon request.

7.1.8 Ordering Options and Conditions

Special Access Service is ordered under the Access Order provisions set forth in Section 5. preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Special Access.

7.2.1 Rate Categories

There are three basic rate categories which apply to Special Access Service:

- Channel Terminations (described in 7.2.1(A) following)
- Channel Mileage (described in 7.2.1(B) following)
- Optional Features and Functions (described in 7.2.1(C) following).

(A) Channel Termination

The Channel Termination rate category recovers the costs associated with the communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability is provided as an optional feature as set forth in (C) following. One Channel Termination charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are collocated in a Telephone Company building.

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ACCESS SERVICE

7. Special Access Service (Cont'd)
7.2 Rate Regulations (Cont'd)
7.2.1 Rate Categories (Cont'd)

(B) Channel Mileage

The Channel Mileage rate category recovers the costs associated with the end office equipment and the transmission facilities between the serving wire centers associated with two customer designated premises, between a serving wire center associated with a customer designated premises and a Telephone Company hub between a serving wire center associated with a customer designated premises and a WATS serving office, between a serving wire center associated with a customer designated premises and the point of meeting with a local exchange carrier that is providing intraLATA service as an interexchange carrier, between two Telephone Company Hubs or between a Telephone Company Hub and the point of meeting with a local exchange carrier providing intraLATA service as an interexchange carrier wire centers and/or hub(s) . .

(1) Channel Mileage Facility

The Channel Mileage Facility rate recovers the per mile cost for the transmission path which extends between the Telephone Company serving wire centers and/or hub(s).

(2) Channel Mileage Termination

The Channel Mileage Termination rate recovers the cost for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at serving wire centers and hubs). The Channel Mileage Termination rate will apply at the serving wire center(s) for each customer designated premises and Telephone Company hub where the channel is terminated. If the Channel Mileage is between Telephone Company bridging hubs, the Channel Mileage Termination rate will apply per Telephone Company designated hub. If the Channel Mileage is between the serving wire center for a customer designated premises and a WATS Serving Office, the Channel Mileage Termination rate will apply at both the serving wire center associated with the customer designated premises and the WATS Serving Office. When the Channel Mileage Facility is zero (i.e., collocated serving wire centers), neither the Channel Mileage Facility rate nor the Channel Mileage Termination rate will apply.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.1 Rate Categories (Cont'd)

(C) Optional Features and Functions

The Optional Features and Functions rate category recovers the costs associated with optional features and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

A hub is a Telephone Company designated serving wire center at which bridging or multiplexing functions are performed. The bridging functions performed are to connect three or more customer designated premises in a multipoint arrangement. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth. WISCONSIN ACCESS CHARGE TARIFF P.S.C. NO. 2 identifies serving wire centers, hub locations and the type of bridging or multiplexing functions available.

Descriptions for each of the available Optional Features and Functions are set forth in 7.4 through 7.10 following.

Effective Date: January 1, 1990

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges

There are three types of rates and charges. These are monthly rates, daily rates and nonrecurring charges. The rates and charges are described as follows:

(A) Monthly Rate

Monthly rates are recurring rates that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes, each month is considered to have 30 days.

(B) Daily Rates

Daily rates are recurring rates that apply to each 24-hour period or fraction thereof that a Program Audio or Video Special Access Service is provided for part-time use. For purposes of applying daily rates, the 24 hour period is not limited to a calendar day.

Part-time Video or Program Audio Service provided within a consecutive 30 day period will be charged the daily rate, not to exceed the monthly rate. For each day or partial day after a consecutive 30 day period of service, a charge equal to 1/30th of the monthly rate shall apply.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an exiting service). The types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, and service rearrangements. These charges are in addition to the Access Order Charge as specified in 17.4.1 following.

(1) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are set for each channel type as a nonrecurring charge for the Channel Termination. A nonrecurring charge is also set for the Central Office Connection of an Intralata Foreign Exchange (FX) Service. (N)
(N)

(2) Installation of Optional Features and Functions

When optional features and functions are installed coincident with the initial installation of service, no separate nonrecurring charge is applicable. When optional features and functions are installed or changed subsequent to the installation of service, an Access Order Charge as specified in 17.4.1 following will apply per order.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements

Service rearrangements are changes to existing (installed) services which may be administrative only in nature, as set forth following, or that involve actual physical change to the service. Changes to pending orders are set forth in 5.4 preceding.

Changes in the physical location of the point of termination or customer designated premises are moves as set forth in 7.2.3 following.

Changes in the type of Service or Channel Termination which result in a change of the minimum period requirement will be treated as a discontinuance of the service and an installation of a new service.

Changes in ownership or transfer of responsibility from one customer to another will be treated as a discontinuance of the service and an installation of a new service. In the event the change in ownership or transfer of responsibility is as set forth in 2.1.2(A) preceding where there is no change in facilities or arrangements, the change will be treated as an administrative change.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

Administrative changes will be made without charge(s) to the customer. Administrative changes are as follows:

- Change of customer name,
- Change of customer or customer's end user premises address when the change of address is not a result of physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number),
- Change of agency authorization
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of jurisdiction.

All other service rearrangements will be charged as follows:

- If the change involves the addition of other customer designated premises to an existing service, the nonrecurring charge for the channel termination rate element will apply. The charge(s) will apply only for the location(s) that is being added. The charge(s) will be in addition to an Access Order Charge as set forth in 17.4.1 following.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.2 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

- If the change involves the addition of an optional feature or function, or if the change involves changing the type of signaling on a Voice Grade service, and for all other changes, the Access Order Charge as set forth in 17.4.1 following will apply

7.2.3 Moves

A move involves a change in the physical location of one of the following:

- The Point of Termination at the customer's premises
- The customer's premises

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring (i.e., installation) charge for the service termination affected. There will be no change in the minimum period requirements. This charge is in addition to the Access Order Charge as specified in 17.4.1 following.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.3 Moves (Cont'd)

(B) Moves To a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

7.2.4 Minimum Periods

The minimum service period for all services except part-time Video and Program Audio services is one month and the full monthly rate will apply to the first month. Adjustments for the quantities of services established or discontinued in any billing period beyond the minimum period are as set forth in 2.4.1(F) preceding. The minimum service period for part-time Video and Program Audio services is a continuous 24-hour period, not limited to a calendar day.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.5 Mileage Measurement

The mileage to be used to determine the monthly rate for the Channel Mileage is calculated on the airline distance between the locations involved, i.e., the serving wire centers associated with two customer designated premises or the serving wire centers of a customer designated premises for access and the first wire center in the area of a local exchange carrier providing intraLATA service as an interexchange carrier, a serving wire center associated with a customer designated premises and a Telephone Company Hub, a serving wire center associated with a customer designated premises and a WATS Serving Office, or two Telephone Company Hubs or a Telephone Company Hub and the first wire center in the area of a local exchange carrier providing intraLATA service as an interexchange carrier. The serving wire center from which the designated premises is the serving wire center from which the customer designated premises would normally obtain dial tone.

Mileage charges are shown with each channel type. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, as set forth in the WISCONSIN ACCESS CHARGE TARIFF P.S.C. NO. 2, then multiply the resulting number of miles times the Channel Mileage Facility per mile rate, and add the Channel Mileage Termination rate for each termination. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage and applying the rates. When more than one Telephone Company is involved in the provision of service, billing will be accomplished as set forth in 2.4.7 preceding.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.5 Mileage Measurement (Cont'd)

When hubs are involved, mileage is computed and rates applied separately for each section of the Channel Mileage, i.e.,

- customer designated premises serving wire center to hub,
- hub to hub and/or
- hub to customer designated premises serving wire center.

However, when any service is routed through a hub for purposes other than customer specified bridging or multiplexing (e.g., the Telephone Company chooses to so route for test access purposes), rates will be applied only to the distance calculated between the serving wire centers associated with the customer designated premises.

See the service configuration example for multipoint service as set forth in 7.1.3(B) preceding.

7.2.6 Facility Hubs

A customer has the option of ordering Voice Grade service or High Capacity services (i.e., DS1, DS1C, DS2, DS3 or DS4) to a facility hub for channelizing to individual services requiring lower capacity facilities (e.g., Telegraph, Voice, Program Audio, etc.).

Different locations may be designated as hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location. When placing an Access Order the customer will specify the desired hub. WISCONSIN ACCESS CHARGE TARIFF P.S.C. NO. 2 identifies serving wire centers, hub locations and the type of multiplexing functions available.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.6 Facility Hubs (Cont'd)

Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from higher to lower bandwidth
- from high capacity to voice frequency channels.

Point to point services may be provided on channels of these services to a hub. The transmission performance for the point to point service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps channel is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade, not High Capacity.

The Telephone Company will commence billing the monthly rate for the service to the hub on the date specified by the customer on the Access Order. Individual channels utilizing these services may be installed coincident with the installation of the service to the hub or may be ordered and/or installed at a later date, at the option of the customer. The customer will be billed for a Voice Grade or a High Capacity Channel Termination, Channel Mileage (when applicable), and the multiplexer at the time the service is installed. Individual service rates (by service type) will apply for a Channel Termination and additional Channel Mileage (as required) for each channelized service. These will be billed to the customer as each individual service is installed.

Cascading multiplexing occurs when a High Capacity service is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a 6.312 Mbps High Capacity service is de-multiplexed to four DS1 channels and then one of the DS1 channels is further de-multiplexed to 24 individual Voice Grade Channels.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.6 Facility Hubs (Cont'd)

When cascading multiplexing is performed, whether in the same or a different hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different hubbing locations, Channel Mileage charges also apply between the hubs.

The Telephone Company will designate hubs for Program Audio and Video Services. Full-time or part-time service may be provided between customer designated premises or between a customer designated premises and a hub and billed accordingly at the monthly rates set forth in 17.3.5 and 17.3.6 following for a Channel Termination, Channel Mileage and Optional Features and Functions, as applicable. When the service is ordered to a hub, the customer may order a full-time or part-time Video and Program Audio Services as needed between that hub and additional customer designated premises. The rate elements required to provide the part-time service (i.e., Channel Termination, Channel Mileage and Optional Features and Functions, as applicable) will be billed at daily rates for the duration of the service requested.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.7 Mixed Use Analog and Digital High Capacity Services

Mixed use refers to a rate application applicable only when the customer orders High Capacity facilities between a customer designated premises and a Telephone Company hub where the Telephone Company performs multiplexing/de-multiplexing functions and the same customer then orders the derived channels as Special and Switched Access Services.

The High Capacity facility will be ordered, provided and rated as Special Access Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexing Arrangement). The nonrecurring charge that applies when the mixed use facility is installed will be the nonrecurring charge associated with the appropriate Special Access High Capacity Channel Termination. Rating as Special Access will continue until such time as the customer chooses to use a portion of the available capacity for Switched Access Service. Individual service (i.e., Switched or Special Access) nonrecurring charges will not apply to the individual channels of the mixed use facility.

When Special Access Service is provided utilizing a channel of the mixed use facility to a hub, High Capacity rates and charges will apply for the facility to the hub, as set forth preceding, and individual service rates and charges will apply from the hub to the customer designated premises. The rates and charges that will apply to the portion from the hub to the customer designated premises will be dependent on the specific type of Special Access Service that is provided (e.g., Voice Grade, Telegraph, etc.). The applicable rates and charges will include a Channel Termination and Channel Mileage, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply for the appropriate channel type.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.7 Mixed Use Analog and Digital High Capacity Services
(Cont'd)

As each individual channel is activated for Switched Access Service, the High Capacity Special Access Channel Termination and Channel Mileage rates will be reduced accordingly (e.g., 1/24th for a DS1 service, etc.). Switched Access Service rates and charges, as set forth in 17.2 following, will apply for each channel of the standard use facility that is used to provide a Switched Access Service.

The customer must place an order for each individual Switched or Special Access Service utilizing the Mixed Use Facilities and specify the channel assignment for each such service.

7.2.8 High Capacity Optional Rate Plans

There are two High Capacity Optional Rate plans; a Term Discount plan and a Capacity Discount plan.

The Term Discount plan applies to Special Access DS1 and DS3 High Capacity Service Channel Termination, Channel Mileage Facility and Channel Mileage Termination monthly rates, as set forth following. The current monthly rate for such services are reduced by a fixed percentage. The amount of the discount percentage differs based on the length of the service commitment period selected by the customer. The Term Discount percentages for High Capacity Service are set forth in 17.3.8 following.

Discounts for the Term Discount plan are only applied to High Capacity Service provided a customer within the same state and LATA by the same telephone company.

Discounts for the Capacity Discount plan are only applied to Special Access DS3 High Capacity Service Channel Termination monthly rates as set forth in 17.3.8 following.

The minimum service period on a monthly rate basis is one month for DS1 service and twelve months for DS3 service.

(N)

(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

(N)

(A) Term Discounts

DS1 and DS3 High Capacity Special Access Service may be ordered at the customer's option on a monthly rate basis or for Term Discount periods of 36 months (3 years) or 60 months (5 years).

The minimum service period for all Term Discount plans is twelve months. The customer must specify the length of the service commitment period at the time the service is ordered.

For customers that subscribe to the Term Discount plan for 36 or 60 months, the Term Discount percentage as set forth in 17.3.8 following will be frozen from Company initiated decreases, for the entire discount period at the percent in effect at the beginning of the term Discount period.

If a Term Discount Percentage increase occurs during the term of an existing Term Discount plan, the increased percentage will be applied automatically to the remainder of the current Term Discount period.

At the end of the Term Discount period, the customer may convert to month-to-month service or subscribe to a new Term Discount Plan. If the customer does not make a choice by the end of the discount period, the rates will automatically convert to month-to-month service rates.

To be included in a Service Term Discount plan all eligible High Capacity rate elements must be ordered for the same commitment term (i.e., all 36 months or all 60 months) and with the same service date. When additional capacity is subsequently added, it will be available only on a month-to month basis unless the discount period of the entire service is upgraded.

Eligible DS1 or DS3 High Capacity rate elements are those Channel Terminations, Channel Mileage Facility and Channel Mileage Terminations provided to a customer within the same state and LATA by the same telephone company. As long as the number of DS1s or DS3s included in a Term Discount plan remains constant, customer requests to install and disconnect DS1 or DS3 services, including changes affecting different wire centers and/or customer designated premises, will not change the current Term Discount period or the minimum service period and Discontinuance of Service charges as set forth in (3) following will not apply.

(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

(A) Term Discounts (Cont'd)

(1) Upgrades in Term Discounts

Services provided under monthly rates or Term Discount rates may be upgraded to a Term Discount plan at any time without incurring Channel Termination nonrecurring charges or discontinuance charges for existing services. The new Term Discount plan must meet or exceed the service term of the plan being upgraded. For example, a service with a 36 month commitment period may be upgraded to a new 36 month, or 60 month service period. The monthly rates will be those that are in effect at the time the service is upgraded. A new minimum service period applies to all High Capacity Service that is upgraded.

(2) Upgrades in Capacity (DS1 to DS3)

If the customer chooses to upgrade a service under the Zero Discount rate plan to a higher capacity (i.e., DS1 to DS3), discontinuance charges will not apply, provided all the following conditions are met:

- the customer's order for the disconnect of the existing DS1 Service and the installation of the new DS3 Service are received at the same time and specifically reference the application of upgrade in capacity,
- the customer's disconnect order for the existing DS1 Service must reference the DS3 Service installation order,
- the new service has a total voice equivalent channel capacity greater than the total voice equivalent channel capacity of the service being discontinued and,
- the new Term Discount period meets or exceeds the Term Discount period being discontinued

(N)

(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

(A) Term Discounts (Cont'd)

(2) Upgrades in Capacity (DS1 to DS3) (cont'd)

A new minimum service period applies to all upgrades. Channel Termination nonrecurring charges for an equivalent channel capacity of the existing services being upgraded to the higher speed service will not be assessed. For example, 30 DS1 Services are being upgraded to DS3 Service. A capacity of 3 is installed at the customer's request. A total of 2 DS3 Channel rate elements will be installed without Channel Termination nonrecurring charges being assessed as it will require 2 DS3 Channel rate elements to provide the equivalent channel capacity of the existing services. Channel Termination nonrecurring charges will not apply to the upgraded lower speed services placed on the higher speed service if requested at the same time as the upgrade request. Channel Termination nonrecurring charges will apply for capacity that exceeds the existing equivalent channel capacity.

Should the customer choose to upgrade either a portion of, or the entire DS1 Service under the Term Discount plan to a DS3 Service and move the service to a new customer location(s), within the same state and LATA and when service is provided by the same telephone company, discontinuance charges will not apply.

(N)

(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

(N)

(A) Term Discounts (Cont'd)

(3) Discontinuance of Service

If the customer chooses to disconnect all or a portion of the service prior to the expiration of the Term Discount period, discontinuance charges will apply to the portion of the service being discontinued.

Should the customer choose to discontinue a Term Discount plan prior to the completion of the minimum service period, discontinuance charges will apply. Discontinuance charges equal to one-hundred percent of the total undiscounted monthly rates, less any amounts previously paid, will apply for the minimum service period. Additionally, discontinuance charges of fifteen percent for DS1 service, and fifty percent for DS3 service, of the total undiscounted monthly charges will apply to the remaining portion of the discount service term.

Should the customer choose to discontinue service ordered under a Term Discount plan after the minimum service period but before the completion of the discount period, discontinuance charges will apply. Discontinuance charges of fifteen percent for DS1 Service, and fifty percent for DS3 Service, of the total undiscounted monthly charges will apply to the remaining portion of the discount period. For example, a customer has a DS1 Service which it chooses to discontinue after 33 months into a 60-month service term. The discontinuance charge would be 0.15 times 27 months times the undiscounted monthly rates for that service.

(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

(N)

(B) DS3 Capacity Discounts

DS3 High Capacity Service may also be ordered at discounted rates in capacities of 3, 6 and 12 systems under a Capacity Discount Plan. Capacity Discounts apply only to DS3 Channel Terminations (i.e., DS3 Capacity Interfaces and DS3 Channels Installed). DS3 Capacity Discounts may be ordered as part of, or separate from Term Discount plans. When ordered in conjunction with Term Discount plans the DS3 Channel Terminations must all be ordered under the same month-to-month rate or Term Discount plan with the same service period and service date.

For DS3 High Capacity Channel Terminations the Capacity Interface must be ordered before or in conjunction with an associated DS3 Channel Installed. In addition, the Capacity Interface can not be disconnected until all of the DS3 Channels Installed are disconnected.

High Capacity Channel Mileage Facility and Channel Mileage Termination charges will apply as required Per DS3 Channel Installed. Capacity Discounts will not apply to these rate elements.

Capacity Discounts will only apply on DS3 Channel Terminations ordered between a serving wire center and customer location, over the same route. Channel Terminations associated with facilities provided between the same serving wire center and customer location via a second or alternate route will not be included as part of the same Capacity Discount plan as the primary route.

The minimum service period for all Capacity Discount plans is twelve months.

(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

(B) DS3 Capacity Discounts (Cont'd)

(1) Upgrades in DS3 Capacity Discounts

Services rated under the DS3 monthly rate plan may be upgraded to a Capacity Discount Plan at any time, without incurring Channel Termination nonrecurring or discontinuance charges for existing services.

Customers with a capacity of 1, 3 or 6 DS3 High Capacity Special Access Systems may upgrade to a new Capacity Discount without incurring Channel Termination nonrecurring or discontinuance charges for existing capacity. This upgrade will be allowed provided the customer designated premises remain the same. Additionally, the new Channel Termination capacity must exceed the Channel Termination capacity of the plan being upgraded. For example, a customer orders a Capacity of 3 DS3 Interface with 2 DS3 Channels Installed. Subsequently, the customer requests an upgrade to a Capacity of 12 DS3 Interface and adds an additional 3 DS3 Channels installed. The monthly rates will be those that are in effect at the time the service is upgraded. A new minimum service period applies to all services that are upgraded. Full Channel Termination nonrecurring charges as set forth in Section 17.3.8 will apply only to the 3 additional DS3 Channels added at the time of the discount plan upgrade.

(N)

(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Rate Regulations (Cont'd)

7.2.8 High Capacity Optional Rate Plans (Cont'd)

(B) DS3 Capacity Discounts (Cont'd)

(2) Upgrades in DS3 Capacity Discounts (Cont'd)

Customers that subscribe to DS3 Capacity Discount plan may upgrade to a larger Capacity Interface. Discontinuance charges will not apply if all the following conditions are met:

- the customer's order for the disconnect of the current DS3 Capacity Interface and order for the installation of the upgraded DS3 Capacity Interface are received by the telephone company at the same time and specifies that the capacity of service is to be upgraded,
- the customer's disconnect order for the existing DS3 Service must reference the new connection order,
- the new service is provided between the same customer locations as the discontinued service.
- the new service has a DS3 Capacity Interface larger than the Capacity Interface of the discount plan or plans being discontinued and,
- any applicable DS3 High Capacity Term Discount plan time period is reestablished or upgraded at the time of the upgrade in the Capacity Discount plan.

(N)

(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service

7.3.1 General

Special access services provided under this tariff may be subject to the monthly Special Access Surcharge.

7.3.2 Application

- (A) The Special Access Surcharge will apply to each intrastate Special Access Service that terminates on an end user's PBX or other device, where through a function of the device, the Special Access Service interconnects to the local exchange network. Interconnection functions include, but are not limited to, wiring and software functions, bridging, switching or patching of calls or stations. The Surcharge will apply irrespective of whether the interconnection function is performed in equipment located at the customer's premises or in a Centrex CO-type switch.
- (B) Special Access Service will be exempted from the Surcharge by the Telephone Company upon receipt of the customer's written certification for the following Special Access Service terminations:
 - (1) an open-end termination in a Telephone Company switch of an FX line, including CCSA and CCSA-equivalent ONALs; or
 - (2) an analog channel termination that is used for radio or television program transmission; or
 - (3) a termination used for TELEX service; or
 - (4) a termination that by the nature of its operating characteristics could not make use of Telephone Company common lines such as, terminations which are restricted through hardware or software; or

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service (Cont'd)

7.3.2 Application (Cont'd)

(B) (Cont'd)

- (5) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line Charges such as, where the Special Access Service accesses only FGA and no local exchange lines, or Special Access Service between customer points of termination, or Special Access Service connecting CCSA or CCSA-type equipment (inter-machine trunks); or
- (6) a termination that the customer certifies to the Telephone Company is not connected to a PBX or other device which interconnects the Special Access Service to a local exchange subscriber line.

7.3.3 Exemption of Special Access Service

- (A) Special Access Services which are terminated as set forth in 7.3.2(B) preceding will be exempted from the Special Access Surcharge if the customer provides the Telephone Company with written exemption certification. The certification may be provided to the Telephone Company as follows:
 - at the time the Special Access Service is ordered or installed;
 - at such time as the service is reterminated to a device which does not interconnect the service to local exchange facilities; or
 - at such time as the service becomes associated with a Switched Access Service that is subject to Carrier Common Line Charges.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service (Cont'd)

7.3.3 Exemption of Special Access Services (Cont'd)

- (B) The exemption certification is to be provided by the customer ordering the service. The certification must be signed by the customer or authorized representative and include the category of exemption, as set forth in 7.3.2(B) preceding, for each termination, and the date which the exemption is effective.
- (C) The customer shall also notify the Telephone Company when an exempted Special Access Service is changed or reterminated such that the exemption is no longer applicable.
- (D) The Telephone Company will work cooperatively with the customer to resolve any questions regarding the exemption certification. In addition, the Telephone Company may withhold exemption of the service until the questions are resolved.

7.3.4 Rate Regulations

- (A) The surcharge will apply as set forth in 7.3.2(A) preceding, except that a surcharge will be assessed on a per voice grade equivalent basis for Special Access Services derived from High Capacity Special Access Services as illustrated in the following example:

Special Access Service	Voice Grade Equivalent		Surcharge	Monthly Charge
DS1	24	x	\$25	= \$600.00

The preceding example illustrates the maximum number of surcharges applicable to a DS1. If the customer claims exemption(s) as set forth in 7.3.3 preceding or, is not utilizing all available voice grade equivalents and has spare capacity, the number of surcharges would be reduced accordingly.

In the case of multipoint Special Access Services, one Special Access Surcharge will apply for each termination of a special Access Channel at an end user's premises.³⁵

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service (Cont'd)

7.3.4 Rate Regulations (Cont'd)

- (B) The Telephone Company will bill the appropriate Special Access Surcharge to the ordering customer for each intrastate Special Access Service installed unless exemption certification is provided as set forth in 7.3.3 preceding.
- (C) If a written certification is not received at the time the Special Access Service is obtained, the Surcharge will be applied. Exempt status will become effective on the certification date indicated by the customer, subject to the regulations set forth in (D) following.

(D) Crediting the Surcharge

The Telephone Company will cease billing the Special Access Surcharge when certification, as set forth in 7.3.3. preceding, is received. If the status of the Special Access Service was changed prior to receipt of the exemption certification, the Telephone Company will credit the customer's account, not to exceed ninety (90) days, based on the effective date of the change as specified by the customer in the letter of certification.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Metallic Service

7.4.1 Basic Channel Description

A Metallic channel is an unconditioned two-wire channel arranged to transmit direct current and capable of transmitting low speed varying signals at rates up to 30 baud. This channel is provided by metallic or equivalent facilities. Metallic channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs where bridging functions are performed. Interoffice metallic facilities will be limited in length to a total of five miles per channel.

Metallic Special Access services are typically used for applications such as alarm, pilot wire protective relaying, and dc tripping protective relaying. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Metallic Service are as set forth in 17.3.2 following.

7.4.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(A) following. Compatible network channel interfaces are set forth in 15.2.2(C)(1) following.

7.4.3 Optional Features and Functions

Central Office Bridging Capability

- (A) Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer designated premises.
- (B) Series Bridging of up to 26 customer designated premises.

The table set forth in 15.2.1(A) following shows the technical specifications packages with which the optional features and functions are available.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.5 Telegraph Grade Service

7.5.1 Basic Channel Description

Telegraph Grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation. Telegraph Grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

Telegraph Grade Special Access Services are typically used for applications such as teletypewriter, telegraph grade control/remote metering, telegraph grade channel, telegraph grade extension, and telegraph grade entrance facilities. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access telegraph Grade Service are as set forth in 17.3.3 following.

7.5.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(B) following. Compatible network channel interfaces are set forth in 15.2.2(C)(2) following.

7.5.3 Optional Features and Functions

(A) Telegraph Bridging (two-wire and four-wire)

The table set forth in 15.2.1(B) following shows the technical specifications packages with which the optional features and functions are available.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.6 Voice Grade Service

7.6.1 Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice Grade channels are provided between customer designated premises, between a customer designated premises and a Telephone Company hub or hubs, or between a customer designated premises and a WATS Serving Office (WSO).

Voice Grade Special Access services are typically used for voice and voiceband data applications. Typical examples of voice grade circuits are Foreign Exchange lines (station end only), multipoint private line, voice trunk type, two-point voice grade data (one-way or simultaneous two-way), multipoint voice grade data, and voice grade telephoto or facsimile. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Voice Grade Service are as set forth in 17.3.4 following.

7.6.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(C) following. Compatible network channel interfaces are set forth in 15.2.2(C)(3) following.

7.6.3 Optional Features and Functions

(A) Central Office Bridging Capability

- (1) Voice Bridging (two-wire and four-wire)
- (2) Data Bridging (two-wire and four-wire)
- (3) Telephoto Bridging (two-wire and four-wire)
- (4) DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.6 Voice Grade Service (Cont'd)

7.6.3 Optional Features and Functions (Cont'd)

(A) Central Office Bridging Capability (Cont'd)

(5) Telemetry and Alarm Bridging

Split Band, Active Bridging
Passive Bridging
Summation, Active Bridging

The rates for these options are set forth in
17.3.4(C)(1)(e) following.

(B) Central Office Multiplexing

Voice to Telegraph Grade. An arrangement that
converts a Voice Grade channel to Telegraph Grade
channels using frequency division multiplexing.

The rate for this option is set forth in 17.3.4(C)(5)
following.

(C) Conditioning

Conditioning provides more specific transmission
characteristics for Voice Grade services. The rates
for these options are set forth in 17.3.4(C)
following.

For two-point services, the parameters apply to each
service as measured end-to-end. For multipoint
services, the parameters apply as measured on each
mid-link or as measured on each end link. C-Type
conditioning and Data Capability may be combined on
the same service.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.6 Voice Grade Service (Cont'd)

7.6.3 Optional Features and Functions (Cont'd)

(C) Conditioning (Cont'd)

(1) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion and data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are delineated in Technical Reference TR-TSY-000335. (T)

(2) Improved Attenuation Distortion*

Improved Attenuation Distortion upgrades the frequency versus loss limits of the channel. The technical specifications for Improved Attenuation Distortion are delineated in Technical Reference TR-TSY-000335. This option is available only when ordered in combination with C-Type Conditioning. (T)

(3) Improved Envelope Delay Distortion*

Improved Envelope Delay Distortion upgrades the frequency versus delay response limits of the channel. The technical specifications for Improved Envelope Delay Distortion are delineated in Technical Reference TR-NPL-000335. This option is available only when ordered in combination with C-Type Conditioning.

- * Improved Attenuation Distortion and Improved Envelope Delay Distortion will continue to be provided to all customers who were provided with either or both of these optional features in conjunction with C-Type Conditioning prior to May 4, 1988.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.6 Voice Grade Service (Cont'd)

7.6.3 Optional Features and Functions (Cont'd)

(C) Conditioning (Cont'd)

(4) Data Capability (D Conditioning)

Data Capability provides transmission characteristic suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or three-point multipoint services.

The Signal to C-Notched Noise Ratio and intermodulation distortion parameter for Data Capability are delineated in Technical Reference TR-TSY-000335. The rate for this option is set forth in 17.3.4(C)(2) following.

(T)

When a service equipped with Data Capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

(5) Telephoto Capability

Telephoto Capability provides transmission characteristics suitable for telephotographic communications. Specifically, Telephoto Capability is provided for the control of attenuation distortion and envelope delay distortion on telephotographic services. The attenuation distortion and envelope delay distortion parameters for Telephoto Capability are delineated in Technical Reference TR-NPL-000335. The rate for this option is set forth in 17.3.4(C)(2) following.

(6) Sealing Current Conditioning

Sealing Current Conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO type network channel interfaces.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.6 Voice Grade Service (Cont'd)

7.6.3 Optional Features and Functions (Cont'd)

(D) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination. The level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical Reference TR-TSY-000335. The rate for this option is set forth in 17.3.4(C)(4) following. (C)

(E) Improved Return Loss

- (1) On Effective Four-wire Transmission at Four-Wire Point of Termination (applicable to each two-wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered. The Improved Return Loss parameters are delineated in Technical Reference TR-NPL-000335. The rate for this option is set forth in 17.3.4(C)(3) following.
- (2) On Effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire POT. The Improved Return Loss parameters are delineated in Technical Reference TR-NPL-000335. The rate for this option is set forth in 17.3.4(C)(3) following.

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7. Special Access Service (Cont'd)

7.6 Voice Grade Service (Cont'd)

7.6.3 Optional Features and Functions (Cont'd)

(F) Signaling Capability

Signaling Capability provides for the ability to transmit signals from one customer premises to another customer premises on the same service. The rate for this option is set forth in 17.3.4(C)(6) following.

The following network channel interfaces for Voice Grade service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR AND TF.

The following network channel interfaces for Voice Grade service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV AND SF.

(G) Selective Signaling Arrangement

An arrangement that permits code selective ringing for up to ten codes on a multipoint service. The rate for this option is set forth in 17.3.4(C)(7) following.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.6 Voice Grade Service (Cont'd)

7.6.3 Optional Features and Functions (Cont'd)

(H) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of an access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to another channel that terminates in either the same or a different customer premises. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option. The rate for this option is set forth in 17.3.4(C)(8) following.

(I) Public Packet Switching Network (PPSN) Interface Arrangement

An arrangement that provides the interface requirements that permit a Voice Grade service to interface with a Public Packet Switching Network packet switch located in a Telephone company premises. The interface is compatible with X.25 and X.75 packet switching protocols as defined by the CCITT. This option is provided on an Individual Case Basis as set forth in 17.3.4(C)(9) following.

(J) Four-Wire/Two-Wire Conversions

When a customer request that an effective four-wire channel be terminated with a two-wire channel interface at the customer designated premises, a four-wire to two-wire conversion is required. The customer will be charged the four-wire Channel Termination rate as set forth in 17.3.4(A) following when an effective four-wire is specified in the order for service. The rate for the conversion is included as part of the basic four-wire Channel Termination rate.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.6 Voice Grade Service (Cont'd)

7.6.3 Optional Features and Functions (Cont'd)

(K) Improved Two-wire Voice Transmission

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -4.0 dB to +4.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 280 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +6.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	35 dBrnc
51 to 100	37 dBrnc
101 to 200	40 dBrnc
201 to 400	43 dBrnc
401 to 1000	45 dBrnc

(4) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	13.0 dB
SRL	6.0 dB

The rate for the provision of Improved Two-Wire Voice Transmission is included as part of the basic Channel Termination rate.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 Program Audio Service

7.7.1 Basic Channel Description

A Program Audio channel is a channel with bandwidth measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Program Audio channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

Program Audio Special Access services are typically used in full-time and part-time applications for radio broadcasting, noncommercial educational audio, and wired music. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Program Audio Service as set forth in 17.3.5 following.

7.7.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(D) following. Compatible network channel interfaces are set forth in 15.2.2(C)(4) following.

7.7.3 Optional Features and Functions

(A) Central Office Bridging Capability

Distribution Amplifier

(B) Gain Conditioning

Control of 1004 Hz AML at initiation of service to
0 dB + 0.5 dB.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.7 Program Audio Service (Cont'd)

7.7.3 Optional Features and Functions (Cont'd)

(C) Stereo

Provision of a pair of gain/phase equalized channels for stereo applications. (An additional Program Audio channel must be ordered separately.)

The table set forth in 15.2.1(D) following shows the technical specifications packages with which the optional features and functions are available.

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7. Special Access Service (Cont'd)

7.8 Video Service

7.8.1 Basic Channel Description

A Video channel is a channel with one-way transmission capability for a standard 525 line/60 field monochrome, or National Television Systems Committee color, video signal and one or two associated 5 or 15 kHz audio signal(s). The associated audio signal(s) may be either diplexed or provided as one or two separate channels. The provision and the bandwidth of the associated audio signal(s) is a function of the channel interface selected by the customer. Video channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

Rates and charges for Special Access Video Service are as set forth in 17.3.6 following.

7.8.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.1(E) following. Compatible network channel interfaces are set forth in 15.2.2(C)(5) following.

The following network channel interfaces (NCIs) define the bandwidth and the provision of the audio signal(s) associated with a Video channel:

<u>NCI</u>	<u>Audio Bandwidth</u>	<u>Provision</u>
2TV6-1	15kHz	1 Channel, diplexed
2TV6-2	15kHz	2 Channels, diplexed
2TV7-1	15kHz	1 Channel, diplexed
2TV7-2	15kHz	2 Channels, diplexed
4TV6-5	5kHz	1 Channel, separate
4TV6-15	15kHz	1 Channel, separate
4TV7-5	5kHz	1 Channel, separate
4TV7-15	15kHz	1 Channel, separate
6TV6-5	5kHz	2 Channels, separate
6TV6-15	15kHz	2 Channels, separate
6TV7-5	5kHz	2 Channels, separate
6TV7-15	15kHz	2 Channels, separate

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7. Special Access Service (Cont'd)

7.9 Digital Data Service

7.9.1 Basic Channel Description

A Digital Data Channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56 or 64 Kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company though the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are provided as either hubbed or non-hubbed services between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs. The hubs providing hubbed digital service and the wire centers providing non-hubbed digital service are identified in National Exchange Carrier Association, Inc., Wire Center Information, Tariff F.C.C. No. 4.

The customer may provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the customer premises.

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds (if provided through a Digital Data hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Rates and charges for Special Access Digital Data Service are as set forth in 17.3.7 following.

7.9.2 Technical Specifications Packages and Network Channel Interfaces

Technical specifications Packages are set forth in 15.2.1(F) following. Compatible channel interfaces are set forth in 15.2.2(C)(6) following.

Effective Date: March 20, 1995

Authorized by PSCW Order _____ Letter March 20, 1995

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.9 Digital Data Service (Cont'd)

7.9.2 Technical Specifications Packages and Network Channel Interfaces (Cont'd)

The following network channel interfaces (NCIs) define the bit rates that are available for a Digital Data channel:

NCI	Bit Rate	
DU-24	2.4 Kbps	
DU-48	4.8 Kbps	
DU-96	9.6 Kbps	
DU-19	19.2 Kbps	(N)
DU-56	56.0 Kbps	
DU-64	64.0 Kbps	(N)

7.9.3 Optional Features and Functions

The Optional Features and Functions described in (A), (B), and (C) following are only available where Digital Data Service is provided via a hub.

(A) Central Office Bridging Capability

(B) Transfer Arrangement

An arrangement that affords the customer an additional measure of protection and/or flexibility in the use of their access channel(s) on a 1xN basis. The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer designated premises. This arrangement is only available at a Telephone Company designated hub. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as a part of the option.

(C) Public Package Switching Network (PPSN) Interface Arrangement

An arrangement that provides the interface requirements that permit a Digital Data Service to interface with a Public Packet Switching Network packet switch located in a Telephone Company premises. The interface is compatible with X.25 and X.75 packet switching protocols as defined by the CCITT.

The table set forth in 15.2.1(F) following shows the technical specifications packages with which the optional features and functions are available.

Effective Date: March 20, 1995

Authorized by PSCW Order _____ Letter March 20, 1995

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.10 High Capacity Service

7.10.1 Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 Kbps* or 1.544, 3.152, 6.132, 44.736, or 274.176 Mbps isochronous serial data. The actual bit rate is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

The customer may provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises.

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411.

Rates and charges for Special Access High Capacity Service are as set forth in 17.3.8 following.

* Available only as a channel of a 1.544 Mbps facility to a Telephone Company Digital Data hub or as a cross connect of two 2.4, 4.8, 9.6, 56.0 or 64.0 Kbps channels of two 1.544 Mbps facilities to a Digital Data hub(s). The customer must provide system and channel assignment data.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.10 High Capacity Service (Cont'd)

7.10.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 15.2.2(G) following. Compatible channel interfaces are set for in 15.2.2(C)(7) following.

The following network channel interfaces (NCIs) define the bit rates that are available for a High Capacity channel:

NCI	Bit Rate
DS-15*	1.544 Mbps (DS1)
DS-27	274.176 Mbps (DS4)
DS-31	3.152 Mbps (DS1C)
DS-44	44.736 Mbps (DS3)
DS-63	6.312 Mbps (DS2)

- * A 64.0 Kbps channel is available as a channel(s) of a 1.544 Mbps channel to a Telephone Company hub.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.10 High Capacity Service (Cont'd)

7.10.3 Optional Features and Functions

(A) Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel line when a working line fails. The spare channel is not included as a part of the option. This option requires compatible equipment at both the serving wire center and the customer designated premises. The customer is responsible for providing the equipment at its designated premises. Equipment at the customer designated premises will be provided under tariff only if it existed in the Telephone Company inventory as of November 18, 1983.

(B) Transfer Arrangement

An arrangement that affords the customer an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to either a spare or working channel that terminates in either the same or a different customer designated premises. A key activated or dial-up control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the option.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.10 High Capacity Service (Cont'd)

7.10.3 Optional Features and Functions (Cont'd)

(C) Central Office Multiplexing

(1) DS4 to DS1

An arrangement that converts a 274.176 Mbps channel to 168 DS1 channels using digital time division multiplexing.

(2) DS3 to DS1

An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

(3) DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four DS1 channels using digital time division multiplexing.

(4) DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.

(5) DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel(s) of this DS1 to the Hub can also be used for a Digital Data Service.

(6) DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 23 64.0 Kbps channels utilizing digital time division multiplexing.

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.10 High Capacity Service (Cont'd)

7.10.3 Optional Features and Functions (Cont'd)

(C) Central Office Multiplexing (Cont'd)

(7) DS0 to Subrate

An arrangement that converts a 64.0 Kbps channel to subspeeds of up to twenty 2.4 Kbps, ten 4.8 Kbps, or five 9.6 Kbps channels using digital time division multiplexing.

The table set forth in 15.2.1(G) following shows the technical specifications packages with which the optional features and functions are available.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

8. Billing and Collection Services

The Telephone company will at its option provide the following services:

- (A) Recording Service,
- (B) Message Processing Service, and
- (C) Billing System Information Service

8.1 Recording Service

The Telephone Company will provide Recording Service in association with the offering of Feature Groups C and D Switched Access Service for customer messages that can be recorded by Telephone Company provided automatic message accounting equipment. In addition, where the Telephone Company records the customer messages on manual tickets, the Telephone Company will provide Recording Service for the manual tickets and at offices where the Telephone Company provides Feature Group A Switched Access Service and has the ability to record the Feature Group A call detail with automatic message accounting equipment and mark the recorded call detail as Feature Group A call detail for a specific customer, the Telephone Company will provide Recording service for Feature Group A Switched Access Service.

The Telephone Company will provide Recording Service in its operating territory. The minimum territory for which the Telephone Company will provide Recording Service is all the appropriately equipped offices in its state operating territory for which the customer has ordered Feature Group A or C Switched Access Service. For Feature Group D Switched Access Service, the minimum territory for which the Telephone Company will provide recording service will be an end office.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.1 General Description

Recording Service is the recording of the details of a customer message and, when requested by the customer, the provision of those details to the customer. Recording Service includes recording, assembly and editing, and provision of recorded customer message detail.

Recording is the entering on magnetic tape or other acceptable media the details of customer messages originated through Switched Access Service for which answer and disconnect supervision has been received. Recording is provided 24 hours a day, 7 days a week.

Assembly and editing is the aggregation of the recorded customer message details to create individual messages and the verification that the data required for rating, in accordance with the standard format established by the Telephone Company, is present.

Provision of customer message detail is the provision of magnetic tapes containing the assembled and edited customer message detail and when requested by the customer, data-transmitting the assembled and edited customer message detail to the customer, sorting the message detail, and providing name and address information for the message detail. Except for lost or damaged records, the recorded detailed will be available to the customer not more than five business days after the date all the detail requested by the customer was processed by the Telephone Company.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.2 Undertaking of the Telephone Company

- (A) The Telephone Company will record all customer messages which are accessible by Telephone Company provided recording equipment. Unavailable customer messages (i.e., certain Feature Group C operator and TSPS messages which are not accessible by Telephone Company provided recording equipment or operators) will not be recorded. The recording equipment will be provided at locations selected by the Telephone Company. Assembly and editing will be performed on all customer messages recorded during the billing period established by the Telephone Company.
- (B) A standard format for the provision of the recorded customer message detail will be established by the Telephone Company and provided to the customer. If, in the course of Telephone Company business, it is necessary to change the format, the Telephone Company will notify the involved customers six months prior to the change.
- (C) Upon request, sorted or unsorted customer message detail will be provided to the customer in accordance with the customer specifications.

This information will only be provided to the extent that it is available in the Telephone Company data base(s). Upon request, name and address information will be provided to the customer.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.2 Undertaking of the Telephone Company (Cont'd)

(C) (Cont'd)

Upon request, sorting will be provided in accordance with the specifications the customer provides when it orders recorded customer message detail. The information necessary to sort the recorded message detail must be available in the Telephone Company records or be provided by the customer. If the sorting is to be performed using information which is confidential due to legal, national security, end user or regulatory imposed requirements, the information will not be used unless the customer secures written permission from the end user for the Telephone Company to use such information.

When available, the name and address information will be provided for the calling number shown in the recorded customer message detail. If the name and address information for a specific calling number is confidential due to legal, national security, end user or regulatory imposed requirements, the name and address information will not be used unless the customer secures written permission from the end user for the Telephone Company to use the information.

(D) Where available and requested by the customer, recorded customer message details with or without sorting and with or without names and addresses will be provided on magnetic tape. The magnetic tapes will be provided without the return of previously supplied tapes. The Telephone Company will supply the magnetic tapes.

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.2 Undertaking of the Telephone Company (Cont'd)

(D) (Cont'd)

Unless specified otherwise by the customer, the magnetic tapes will be sent to the customer via first class U.S. Mail service. However, the customer may pick up the magnetic tapes at a location designated by the Telephone Company or request that the detail on the magnetic tapes be data-transmitted to the customer.

(E) Recorded customer message detail which is used to provide Message Processing Service is retained by the Telephone Company for not longer than 45 days. The rated message detail is retained for reference (i.e., on paper or microfiche) in place of the recorded customer message detail. The Telephone Company will make every reasonable effort to recover recorded customer message detail not used in Message Processing Service. The charges as set forth in (17.5.1(C) following), will apply for all such detail provided. When these recorded customer message details are data-transmitted to a customer premises, the data transmission charges (17.5.1(D) following), will apply. Such a request must be made within 30 days from the date the details were initially made available to the customer.

(F) Program Development charges, as set forth in (17.5.1(E) following), apply for the hours required to design, develop, test and maintain the necessary programs to provide customer requested data or accommodate customer provided changes.

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ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.3 Liability of the Telephone Company

Notwithstanding 2.1.3 preceding, the Telephone Company liability for Recording Service is as follows:

- (A) If customer message detail is not available because the Telephone Company lost or damaged tapes or incurred recording system outages, the Telephone Company will estimate the volume of lost customer messages and associated revenue based on previously known values. This estimated customer message volume will be included along with the customer message detail provided to the customer and/or provided for Message Processing Service. In such events the extent of the Telephone Company's liability for damages shall be limited to the granting of a corresponding credit adjustment to the customer amounts due to account for the unbillable revenue.
- (B) When the Telephone Company is notified that, due to error or omission, incomplete data have been provided to a customer, the Telephone Company will make every reasonable effort to locate and/or recover the data and provide new magnetic tapes to the customer at no additional charge. Such request to recover the data must be made within 30 days from the date the details were initially made available to the customer. If the data can not be recovered, the extent of the Telephone Company's liability for damages shall be limited as set forth in (A) preceding.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.3 Liability of the Telephone Company (Cont'd)

- (C) In the absence of willful misconduct, no liability for damages to the customer or other person or entity other than as set forth in (A) and (B) preceding shall attach to the Telephone Company for its action or the conduct of its employees in providing Recording Service.

8.1.4 Obligations of the Customer

- (A) The customer shall order Recording Service Under a Special Order. The customer shall order Recording Service at least one month prior to the date when the customer message detail is to be recorded.
- (B) The customer shall order, under a Special Order, provision of recorded customer message detail without sorting or name and address information at least one month prior to the date when it wishes to receive the recorded message detail. Any change in the provision of recorded customer message detail without sorting and name and address information to the customer will be accommodated provided the customer gives two weeks advance written notification to the Telephone Company.
- (C) The premises of the ordering customer shall provide such signals as may be required for the proper operation of the Telephone Company's automatic message accounting equipment used to perform the detail recordings.

Effective Date: January 1, 1990

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ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.5 Payment Arrangements and Audit Provision

(A) Audit Provision

Audit provisions apply as specified in Section 3.7.3(E) preceding.

(B) Minimum Period and Minimum Monthly Charge

The minimum period for Recording Service is one month. The minimum monthly charges are the charges for each rate element ordered by the customer for a 30-day period. If the service is terminated prior to the completion of the initial month's service, the Telephone Company will estimate the minimum charge for each rate element using the most recent data available.

(C) Cancellation of a Special Order

A customer may cancel a Special Order for Recording Service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the Special Order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days. The service date for Recording Service is the date the customer requests the recordings to start.

When a customer cancels a Special Order for Recording Service after the order date but prior to the start of service, the minimum monthly charges will apply.

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ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.5 Payment Arrangements and Audit Provision (Cont'd)

(D) Changes to Special Orders

When a customer requests material changes to a pending Special Order for Recording Service, the pending Special Order will be cancelled and a new Special Order will be issued. Material changes to a pending Special Order for Recording Service include changes in the location and/or number of Telephone Company recording locations, changes in sorting parameters, provision of end user phone numbers and address, provision of data transmission to a customer location of customer recorded message detail, and changes in schedule, dates or intervals for receipt of customer recorded message detail. Non-material changes to a pending Special Order include changes in customer name, customer address and customer requests to receive Recording Service output at the Telephone Company location instead of through U.S. Mail. All cancellation charges as set forth in (C) preceding will apply for the cancelled Special Order.

8.1.6 Rate Regulations

- (A) The Recording service Special Order charge (17.5.1(A) following), applies for each Special Order accepted by the Telephone Company for Recording Service.
- (B) When recording service and message rating service are ordered the assembling and editing charge does not apply. The charges for recording and for assembly and editing apply per message recorded and per message assembled and edited.

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ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.1 Recording Service (Cont'd)

8.1.6 Rate Regulations (Cont'd)

- (C) When non-rated customer message detail is entered on a data file or magnetic tape for provision of message detail to a customer, the per tape charge applies for each data file or magnetic tape prepared, and the per record charge (17.5.1(C) following), applies for each record processed. A record is a logical grouping of information as described in the programs that process the information. The Telephone Company will determine the charges based on the number of data files or magnetic tapes prepared and on its count of the records processed. The number of records processed will be determined using the number of records input to or the number of records output from the programs that process the information and load the magnetic tapes or data file, whichever number of records is higher.
- (D) The rates associated with Data Transmission (17.5.1(D) following), apply when message detail is data transmitted to a customer location by the Telephone Company. This charge applies on a per record transmitted basis.
- (E) The Program Development Charges as set forth in (17.5.1(E) following), apply on either a basic or premium basis when the Telephone Company is required to make programming changes to meet customer needs. The Telephone Company will keep a count of the hours and fraction thereof to provide program development and will bill the customer accordingly. The hours for each service ordered will be summed and then rounded to the nearest hour. When the total is less than one hour, a one-hour minimum will be used to determine the charges.

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ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service

Message Processing Service consists of Message Rating Service and Message Billing Service. A customer may order Message Rating Service or Message Billing Service or both services.

Upon request, the Telephone Company will provide Message Processing Service in its operating territory. The minimum territory for which the Telephone Company will provide Message Processing Service is its operating territory within the state of Wisconsin.

The Telephone Company will not render bills under this Tariff for the provision and/or delivery of telegrams, flowers, gifts, wine or other like services that a customer offers.

8.2.1 General Description

(A) Message Rating Service

Message Rating Service is the transforming of the recorded customer call details into rated messages in preparation for billing. Message Rating Service includes initial data entry and rating of messages.

Initial data entry is the assembly of recorded customer call details into customer messages. This function includes editing and verification of recorded details to assure that the data required for rating are present.

Rating of customer messages is the computing of applicable charges for each customer message based on the customer provided schedule of rates. Rating also includes the preparation of customer message detail for input to Message Billing Service, the customer, or other entities.

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ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.1 General Description (Cont'd)

(B) Message Billing Service

Message Billing Service includes message billing account establishment, posting of rated messages and rate elements, preparation and rendering of bills, collection of deposits, receiving payments, maintenance of accounts, treatment of accounts, message investigation and inquiry (when ordered by the customer).

Message Billing Service is a billing service for an end user account where individual customer messages are posted to the account and are listed on the bill rendered to the end user. This includes customer credit card end user accounts without an end user common line or WATS Access Line and WATS-type service access lines.

Account establishment is the preparation of a customer's end user record so that a bill can be sent to that end user.

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ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.1 General Description (Cont'd)

(B) Message Billing Service (Cont'd)

Posting is the examination and identification of all the rateable elements specified by the customer to be billed to an end user and the application of appropriate customer rates and charges. The rating may be performed by the Telephone Company, another entity or the customer. Rating is always performed and editing may be performed coincident with the implementation of a change in the customer's schedule of rates.

Rendering of bills is the preparation and mailing of statements of the deposits and amounts due from the end user for customer message billing and service. These statements may, at Telephone Company choice, be included as part of the regular monthly bill for local Telephone Exchange Service mailed to the end user.

Receiving payment and maintenance of accounts is the collecting of monies from end users for services furnished by the customer and maintenance of records of all transactions.

Treatment of accounts is the forwarding of notices of delinquent or unpaid end user accounts and posting of credits and adjustments.

Message investigation is that activity undertaken by the Telephone Company to secure, or attempt to secure, proper billing information for customer messages.

Inquiry is the answering of end user questions about charges billed for customer services and application of credits and adjustments to end user accounts and review of customer messages removed from an end user's bill.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.2 Undertaking of the Telephone Company

(A) Message Rating Service

- (1) The Telephone Company will provide Message Rating Service only for customer messages originating or recorded within the operating territory of the Telephone Company. The customer messages to be processed may be customer messages from Recording Service as set forth in 8.1 preceding or other customer messages which are chargeable in accordance with the rate schedule furnished by the customer.

Any sent-paid coin messages provided as input by the customer will be processed unless the customer specifies in writing that such customer messages are not to be processed.

- (2) A record of customer call details is required to provide Message Rating Service. Where a customer subscribes to Recording Service as set forth in 8.1 preceding, those recorded details may be used as the input. Where the customer provides the call details, the records must be in the standard format established by the Telephone Company and delivered to the location specified by the Telephone Company. If the customer provided records must be converted by the Telephone Company to the standard format, and the Telephone Company agrees to make the conversion, the program development charges apply for the hours required to design, develop, test and maintain the necessary programs. The Telephone Company will provide to the customer the precise details of the required standard format. If, in the course of Telephone Company business, it is necessary to change the standard format, the Telephone Company will provide notification to the involved customers six months prior to the change.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.2 Undertaking of the Telephone Company (Cont'd)

(A) Message Rating Service (Cont'd)

- (3) The Telephone Company will develop the customer's schedule of rates into a rating program. Program development charges apply for the hours required to design, develop, test and maintain the necessary programs.
- (4) Upon acceptance by the Telephone Company of a Special Order for Message Processing Service from a customer, the Telephone Company will determine the period of time to implement such service on an individual order basis.
- (5) Changes in the rate levels of customer charges to be billed will normally be implemented within 30 days after receipt of a Special Order from the customer requesting such changes. Such changes will require modifications of the rating program. Program development charges apply for the hours required to design, develop, test and maintain the necessary program changes in addition to the End User Rate Element Rate Level Change charge.
- (6) Changes in the rate level for customer services to be billed also require a change in the rating program. When the Telephone Company determines that it can accommodate the changes, the conditions and the period of time required to make such changes will be determined on an individual order basis. Program development charges apply for the hours required to design, develop, test and maintain the necessary program changes in addition to the End User Rate Element Rate Structure Change charge.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.2 Undertaking of the Telephone Company (Cont'd)

(A) Message Rating Service (Cont'd)

- (7) Where the Telephone Company has rated customer messages which are to be billed to an end user by another Exchange Telephone Company, the Telephone Company will enter the customer messages on a magnetic tape or data file which can be used for data transmission of the details. When the customer has so arranged with an involved Exchange Telephone Company, the Telephone Company will transmit the rated customer message details to such other Exchange Telephone Company for billing to end users in its operating territories. When the customer does not have billing arrangements with an Exchange Telephone Company, rated messages for billing to the end users of such an Exchange Telephone Company will be delivered to the customer.

Program development charges apply for the hours required to design, develop, test and maintain the necessary programs to provide customer requested data or accommodate customer provided changes.

- (8) Customer messages, which the Telephone Company processes that cannot be rated in accordance with the customer rate schedule, will be reviewed by the Telephone Company. Upon completion of the review, rated customer messages will be delivered to the Message Billing Service. Unrated messages will be handled in accordance with instructions that have been mutually determined by the Telephone Company and the customer.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.2 Undertaking of the Telephone Company (Cont'd)

(B) Message Billing Service

- (1) When Message Billing Service is ordered by a customer, the Telephone Company will establish and maintain end user accounts and prepare and render bills for all customer messages. End user accounts established by the Telephone Company will not reflect any previous balance due.

The Telephone Company will, in accordance with Telephone Company deposit regulations, determine and collect a deposit from the end user for the customer service.

The Telephone Company will, when necessary in accordance with the Telephone Company deposit regulations, maintain a service deposit balance for each end user account. Service deposits will not be maintained by individual customer accounts but will be maintained for the end user account in general. The Telephone Company will provide the customer a copy of its service deposit regulations upon request from the customer.

- (2) The Telephone Company will provide Message Billing Service for end user accounts located within the operating territory of the Telephone Company.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.2 Undertaking of the Telephone Company (Cont'd)

(B) Message Billing Service (Cont'd)

- (3) Rated customer messages are required to provide Message Billing Service. If the customer subscribed to Message Rating Service as set forth in (A) preceding, the rated customer messages may be used as the input. If the customer provides the rated customer messages, those customer messages must be in the standard format established by the Telephone Company and delivered to the location specified by the Telephone Company.

Such customer provided rated message data must identify the end user account to be billed. If the customer provided rated messages must be converted by the Telephone Company to the standard format and the Telephone Company agrees to make the conversion, program development charges apply for the hours required to design, develop, test and maintain the necessary programs. In addition, the assembling and editing charge applies. The Telephone Company will provide to the customer the precise details of the required format. If, in the course of Telephone Company business, it is necessary to change the format, the Telephone Company will notify the involved customers six months prior to the change.

- (4) The Telephone Company will bill all rated customer messages provided by the customer to the customer's end user. The bill format will be determined by the Telephone Company.
- (5) Upon acceptance by the Telephone Company of a Special Order for Message Billing Service, the Telephone Company will determine the conditions and the period of time to implement such service.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.2 Undertaking of the Telephone Company (Cont'd)

(B) Message Billing Service (Cont'd)

- (6) Program development charges apply for hours required to design, develop, test and maintain necessary programs to provide customer requested data or accommodate customer provided changes.
- (7) The Telephone Company will, at the option of the customer, provide Message Billing Service with or without inquiry. When the Telephone Company provides inquiry, the Telephone Company will be responsible for contacts and arrangements with the customer's end users concerning the billing, collecting, crediting and adjusting of the customer service charges in accordance with written instructions furnished by the customer. When the Telephone Company provides Message Billing Service without inquiry, all contacts from customer end users concerning the customer billed amounts will be referred to the customer. The Telephone Company will only be responsible for contacts with customer's end users concerning the collection of customer service deposits and charges. Inquiry will only be provided when the customer is provided Message Billing Service at the same time.
- (8) The Telephone Company will accept customer gift certificates for payment from end users if the customer agrees in writing to redeem all such gift certificates. The format of the gift certificate must be acceptable to the Telephone Company.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.2 Undertaking of the Telephone Company (Cont'd)

(B) Message Billing Service (Cont'd)

- (9) Rated customer messages input to Message Billing Service which the Telephone Company cannot bill for any reason will be reviewed by the Telephone Company's message investigation groups. Upon completion of the review, the billable messages will be posted and the appropriate charges will apply. Unbillable messages will be handled in accordance with instructions that have been mutually determined by the Telephone Company and the customer.
- (10) The Telephone Company will post rated customer messages to the appropriate end user accounts. The Telephone Company will bill to an end user other customer message related service charges, such as provision of a credit card, issuing of a credit card, blocking of third number billing, time and rate charges, and subscription charges when it receives an order for such services from a customer. Other customer message-related charges, such as directory assistance and DIAL-IT charges, will be billed to the end user based on customer message data received from Message Rating Service or from the customer. The Telephone Company will make adjustments to end user balances due as a result of credits authorized by customer inquiry instructions and customer furnished statements.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.2 Undertaking of the Telephone Company (Cont'd)

(C) Message Processing Service Ordering

- (1) The Telephone Company will provide Message Processing Services under a Special Order. The Message Processing Service Special Order Charge will apply each time a service is ordered. The format of this Special Order will be specified by the Telephone Company.
- (2) The Telephone Company will accept an end user account activity special order to (a) establish or change end user account data, (b) establish or change an end user account balance due, (c) establish or change an end user account rate element rate level, and (d) change end user account rate element rate structure. The methods, procedures and manner in which the end user account data and changes are forwarded to the Telephone Company must be agreeable to the Telephone Company.

8.2.3 Liability of the Telephone Company

Notwithstanding 2.1.3 preceding, the Telephone Company liability for Message Processing Service is as follows:

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.3 Liability of the Telephone Company (Cont'd)

- (A) If Message Billing Service detail is not available because the Telephone Company lost or damaged records or incurred processing system outages, the Telephone Company will attempt to recover the lost customer detail. If the lost customer detail cannot be recovered and the Telephone Company recorded the details, the customer detail and the extent of the Telephone Company's liability for damages will be as set forth in 8.1.3(A) preceding. If the lost customer detail cannot be recovered and the customer provided the detail, the customer will be requested to resupply the detail. If the customer cannot resupply the detail, the detail and the extent of the Telephone Company's liability for damages will be as set forth in 8.1.3(A) preceding. This recovered detail will be included in message detail provided to the customer when the customer orders such service and any recovered customer messages will be billed.
- (B) When the Telephone Company is notified that, due to its error or omission, incomplete customer detail has been provided, as set forth in 8.2.2(A)(8) preceding and/or 8.3 following, to a customer, the Telephone Company will make a reasonable effort to recover and provide the customer detail to the customer at no additional charge. Such request to recover the customer detail must be made within 30 days from the date the customer detail was initially made available to the customer. If the detail cannot be recovered, the extent of the Telephone Company's liability for damages shall be limited as set forth in 8.1.3(A) preceding.
- (C) If the Telephone Company finds, or is notified of, an error in billing to an end user, it will make a reasonable effort to correct the error and bill the appropriate end user within the limits permitted by laws of the state of Wisconsin. If the error is caused by the Telephone Company and the Telephone Company cannot bill the proper end user in a timely manner, the extent of the Telephone Company's liability for damages will be the known amount misbilled or when the amount misbilled is unknown, limited as set forth in 8.1.3(A).

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.3 Liability of the Telephone Company (Cont'd)

- (D) In the absence of willful misconduct, no liability for damages to the customer or other person or entity other than as set forth in (A), (B) and (C) preceding shall attach to the Telephone Company for its action or the conduct of its employees in providing Message Processing Service.

8.2.4 Obligations of the Customer

- (A) The customer shall order Message Processing Services under a Special Order. The customer shall be responsible for all balances due from end users that exist prior to ordering Message Billing Service.

At the time Message Rating Service and/or Message Billing Service is initially ordered, the customer shall order the service for 1 year. Not later than six months prior to the end of an order period, the customer shall notify the Telephone Company in writing if any service is to be discontinued at the end of the period. If no notice is received from the customer, the Telephone Company will automatically extend the services for another year.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Billing Service (Cont'd)

8.2.4 Obligations of the Customer (Cont'd)

- (B) The customer shall furnish all information necessary for the Telephone Company to provide the Message Processing Service, including any per month service charges applicable to an end user and an affidavit that states whether the customer service is subject to any Federal taxes and/or State, County/Local taxes.
- (C) The customer shall furnish to the Telephone Company a written schedule of its rates and charges in a mutually agreeable time frame to allow the Telephone Company to establish a rating program.
- (D) The customer shall be responsible for all contact and arrangements with its end users concerning the provision and maintenance of the customer's service, including prior customer balances due from end users.
- (E) When the customer orders Message Billing Service with inquiry, the customer shall furnish the Telephone Company written instructions, which are agreeable to the Telephone Company, for the handling of end user questions about bills.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.4 Obligations of the Customer (Cont'd)

(E) (Cont'd)

When the customer orders Message Billing Service without inquiry, the customer shall furnish the Telephone Company with written instructions as to where inquiries are to be referred.

The customer shall notify its end users through its tariff or other appropriate means when the customer handles the bill inquiries. The customer shall furnish the Telephone Company in writing all end user bill adjustment statements.

(F) The customer will immediately redeem all customer gift certificates the Telephone Company receives in payment for any end user charges. The customer agrees to use a gift certificate format which is agreeable to the Telephone Company.

(G) The customer agrees to permit the Telephone Company to determine and collect customer service deposits from all customer's end users in accordance with Telephone Company deposit regulations. The customer will notify its end users through its tariffs or other means that the Telephone Company will, when necessary in accordance with Telephone Company deposit regulations, determine and collect customer service deposits.

(H) When the customer furnishes recorded customer detail for Message Rating Service and/or rated customer message detail for Message Billing Service, it shall be responsible to deliver the detail to the location specified by the Telephone Company and it shall retain a copy of the detail furnished for at least 90 days.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.5 Audit Provisions and Payment Arrangements

(A) Audit Provisions

Audit provisions apply as specified in Section 3.7.3(E) preceding.

(B) Minimum Period

The minimum period for which Message Processing Service is provided and for which charges apply is one year. A minimum period of one year applies for each additional period of service ordered.

If the service is discontinued prior to the end of the period ordered, monthly charges apply for each remaining month and fraction of a month. The monthly charge will be equal to the average monthly charge for the preceding 12 month period or fraction thereof, if the service period is less than 1 year.

(C) Minimum Charge

At the option of the telephone company a minimum periodic charge may apply to each customer that orders message processing service. Charges are as set forth in Section 17.5.2 (D)

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.5 Audit Provisions and Payment Arrangements (Cont'd)

(D) Cancellation of a Special Order

A customer may cancel a Special Order for Message Processing Service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the Special Order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days. The service date for Message Processing Service is the date the customer and the Telephone Company mutually agree the service is to start.

When a customer cancels a Special Order for Message Processing Service after the order date, but prior to the start of service, a charge equal to the Special Order charges, program development costs and any nonrecoverable capital costs incurred by the Telephone Company will apply to the customer.

(E) Changes to Special Orders

When a customer requests changes to a pending Special Order for Message Processing Service, such changes will be undertaken if they can be accommodated by the Telephone Company. A charge equal to any cost incurred by the Telephone Company because of the change will apply.

8.2.6 Rate Regulations

- (A) The Message Processing Service Special Order charge (17.5.2(A) following), applies for each Special Order for Message Rating Service and/or Message Billing Service, other than establishment of or changes to end user account data, establishment of or changes to end user account rate levels and changes to end user balances due.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.6 Rate Regulations (Cont'd)

- (B) The Message Rating Service message charges (17.5.2(B) following), apply during the minimum period ordered by the customer.
- (C) Message Billing Service charges (17.5.2(C) following), apply during the yearly period ordered by the customer.
 - (1) The Message Billing charge (17.5.2(C)(1) following), applies for each message that is processed to the message billing file.
 - (2) The Message inquiry charge (17.5.2(C)(2) following), applies for each Message that is processed to the message billing file.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.6 Rate Regulations (Cont'd)

- (D) The Program Development charges (17.5.2(E) following), apply on either a basic or premium basis when the Telephone Company is required to make programming changes to meet customer needs.

The Telephone Company will keep a count of the hours and fraction thereof to provide program development and will bill the customer accordingly. The hours for each service ordered will be summed and then rounded to the nearest hours. When the total is less than one hour, a one-hour minimum will be used to determine the charges.

- (E) The rate associated with Data Transmission of rated customer message detail between other Exchange Telephone Company locations (17.5.2(F) following), applies when message detail is data transmitted to or received from another Exchange Telephone Company location by the Telephone Company. This charge applies on a per record transmitted or received basis.

A record is a logical grouping of information as described in the program that processes the information.

- (F) The End User Account Activity charges (17.5.2(G) following), apply whenever a customer requests end user account activity.

An End User account is a record for Message Billing Service which has a unique name and address and billing identification number, assigned by the Telephone Company, to which a bill is rendered.

- (1) The End User Account Activity Special Order charge (17.5.2(G)(1) following), applies whenever the customer furnishes to the Telephone Company end user account information that establishes an account or changes the rate element, rate levels, rate element structure, or balance due associated with an end user account.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.6 Rate Regulations (Cont'd)

(F) (Cont'd)

- (2) The End User Account Establishment or Change Charge (17.5.2(G)(2) following), applies whenever customer furnished information is used by the Telephone Company to establish or change end user account data. This charge does not apply to end user account rate element rate level changes, rate element rate structure changes, and adjustments to end user account balances. In addition, the End User Account Establishment or Change charge does not apply when rated customer messages are posted to a message-billed account associated with an end user common line. The End User Account Establishment or Change charge applies when the Telephone Company, at the request of a customer, establishes or changes a message-billed account with a credit card but without an associated end user common line.
- (3) The Adjustment to End User Account Balance charge (17.5.2(G)(3) following), applies whenever customer furnished information is used by the Telephone Company to change an end user's account balance. The charge applies per end user account, per adjustment.
- (4) The End User Account Rate Element Rate Level Change charge (17.5.2(G)(4) following), applies whenever customer furnished information is used by the Telephone Company to change an end user account rate element rate level. The charge applies for each end user account rate element rate level change.
- (5) The End User Account Rate Element Rate Structure Change charge (17.5.2(G)(5) following), applies whenever customer furnished information is used by the Telephone Company to change an End User's rate structure. This charge applies for each end user account on a per rate element changed basis.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.2 Message Processing Service (Cont'd)

8.2.6 Rate Regulations (Cont'd)

- (G) Message Toll Sampling charges (17.5.2(H) following), apply when records are entered on a data file or magnetic tape in order to provide toll sampling information to a customer. A record is a logical grouping of information as described in the programs that process the information. The number of records output from the programs that process the information will be used to determine the charges. The per tape charge applies for each tape prepared.

- (I) The Telephone Company will provide to the Toll Provider a duplicate record of all local exchange originating intralata messages, all originating 800 messages and all intralata intrastate Wisconsin received collect billed messages on either magnetic tape or through data transmission. A standard format for the provision of these duplicates will be established by the toll provider and provided to the Telephone Company. The charge (17.5.2(I) following) for this will be on a per message basis.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.3 Billing System Information Service

At the request of the customer, the Telephone Company will provide information to the customer from its End User records, billing files and account data base.

8.3.1 General Description

Billing System Information Service is the provision of information to the customer from Telephone Company record systems. Such Billing Information Service will be limited to the provision of information to a customer relating exclusively to End User services provided by that customer. Information relating to services provided by any other entity will not be provided.

Information is defined as any entry in the records which is not listed as proprietary to the Telephone Company. Any entry listed as proprietary to the Telephone Company will not be provided.

8.3.2 Undertaking of the Telephone Company

(A) Upon request from a customer who has also ordered Message Processing Service, the Telephone Company will provide information from its records as follows:

- (1) message detail for a message end user
- (2) account detail for a message end user

Message detail is message billing records in exchange message record (EMR) format.

Account detail is data that furnishes the end user name, billing address and billing parameters.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.3 Billing System Information Service (Cont'd)

8.3.2 Undertaking of the Telephone Company (Cont'd)

(A) (Cont'd)

Message detail and/or account detail which is confidential due to legal, national security, end user or other appropriate requirements will not be provided. If the customer requires this information in order to bill its services, it shall secure written permission from the end user to obtain the information from the Telephone Company. The customer shall furnish the Telephone Company the end user's written permission for the information to be released.

(B) Billing System Information will be provided on a total file and/or file update basis as follows:

- (1) The total file output will contain end user information for the current billing period. The billing period will be set by the Telephone Company. The magnetic tapes will be provided without the return of previously supplied tapes. The Telephone Company will supply the magnetic tapes.

Once available, the paper printout, magnetic tape or fiche will be sent to the customer via first class U.S. Mail service. At the option of the customer, the customer may pick up the paper printout, magnetic tape or fiche at a location designated by the Telephone Company or request the information be data-transmitted to the customer.

- (2) The file update output will contain end user information for the current billing period only. The current billing period is the period associated with the most recent bill rendered to an end user. The magnetic tapes will be provided without the return of previously supplied tapes. The Telephone Company will supply magnetic tapes. The file updates will include those records added and those records deleted, if available.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.3 Billing System Information Service (Cont'd)

8.3.2 Undertaking of the Telephone Company (Cont'd)

(B) (Cont'd)

(2) (Cont'd)

Once available, the file update magnetic tape will be sent to the customer via first class U.S. Mail service. At the option of the customer, the customer may pick up the paper output, fiche or magnetic tape at a location designated by the Telephone Company or request the information be data-transmitted to the customer.

(C) The Telephone Company will, at the request of the customer, mark any message billing end user account as a user of the customer's message services. After marking is ordered, the end user account will be marked as a customer end user account at the time the first message is posted to the end user account.

(D) Upon acceptance by the Telephone Company of a special Order for Billing System Information Service from a customer, the Telephone Company will determine the period of time to implement such service on an individual order basis.

8.3.3 Liability of the Telephone Company

Notwithstanding 2.1.3 preceding, in the absence of willful misconduct, no liability for damages to the customer or other person or entity shall attach to the Telephone Company for its action or the conduct of its employees in providing Billing System Information Service.

8.3.4 Obligations of the Customer

(A) The customer shall order Billing System Information Service under a Special Order. The customer shall order Billing System Information Services and shall specify how often it wishes the service to be provided.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.3 Billing System Information Service (Cont'd)

8.3.4 Obligation of the Customer (Cont'd)

- (B) With each order, the customer shall identify the authorized individual and address to receive the Billing System Information Service output.
- (C) The customer shall take every effort to make sure that Billing System Information Service output is provided only to authorized personnel. The customer shall agree, in writing to the Telephone Company, that the customer will not provide the Billing System Information Service outputs to third parties for any use by such third parties except for work for the customer and which is under complete control of the customer.
- (D) The customer shall be responsible for all contacts and inquiries from its end users concerning Billing System Information Service.
- (E) When the customer orders marking, all accounts containing that customer's messages will be marked starting with the next bill period and marks will be made until the customer orders removal of all marks.

8.3.5 Payment Arrangements

(A) Cancellation of a Special Order

A customer may cancel a Special Order for Billing System Information Service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the Special Order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days. The service date for a Billing System Information Service is the date the Telephone Company notifies the customer that the Telephone Company is ready to provide Billing System Information Service reports.

When a customer cancels a Special Order for Billing System Information Service after the order date but prior to the start of service, charges as listed following shall apply:

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.3 Billing System Information Service (Cont'd)

8.3.5 Payment Arrangements (Cont'd)

(A) Cancellation of a Special Order (Cont'd)

- (1) For any service, the appropriate per hour rate for all hours expended by the Telephone Company to provide the service.
- (2) For any service, any expense for equipment obtained for the service where such equipment cannot be reused within six months.

(B) Changes to Special Orders

When a customer requests changes to a pending Special Order for Billing System Information Service, any additional time required on the part of Telephone Company personnel will be billed to the customer at the appropriate hourly charges.

8.3.6 Rate Regulations

- (A) The Provision of Billing System Information Service Special Order Charge (17.5.3(A) following) applies for each Special Order accepted by the Telephone Company for Billing System Information Service.
- (B) Billing system Information Detail Charges (17.5.3(B) following), apply when records are entered on a data file or magnetic tape in order to provide information to a customer. A record is a logical grouping of information as described in the programs that process the information. For each service and type of output ordered, the number of records processed by the Telephone Company to prepare the output will be used to determine the charges. The number of records processed will be determined using the number of records input to or the number of records output from the programs that process the information, whichever number of records is higher. The per tape charge applies for each tape prepared.

ACCESS SERVICE

8. Billing and Collection Services (Cont'd)

8.3 Billing System Information Service (Cont'd)

8.3.6 Rate Regulations (Cont'd)

- (C) The Program Development Charges (17.5.3(C) following), apply on either a basic or premium basis when the Telephone Company is required to make programming changes to meet customer needs. The Telephone Company will keep a count of the hours and fraction thereof to provide program development and will bill the customer accordingly. The hours will be summed and then rounded to the nearest hour. When the total is less than one hour, a one-hour minimum will be used to determine the charges.
- (D) The rate associated with Data Transmission of Billing System Information Service details to a location designated by the customer (17.5.3(D) following), when Billing System Information Service detail is data transmitted by the Telephone Company to a location designated by the customer. This charge applies on a per record transmitted basis.
- (E) The Marking of Message End User Accounts charge (17.5.3(E) following), applies for each end user account marked. No charge applies for the removal of all customer marks.

ACCESS SERVICE

9. Special Construction

9.1 General

This section addresses special construction of Telephone Company facilities which are used to provide services offered under this tariff.

When special construction is required as described in 9.2 following, the provisions of this section apply in addition to regulations, rates, and charges set forth in other sections of this tariff.

Regulations and rates will be added to this tariff for each specific application of Special Construction. The customer will provide written authorization to the Telephone Company prior to the commencement of any Special Construction, and any applicable charges for such construction will be paid to the Telephone Company prior to the commencement of any Special Construction.

9.2 Conditions Requiring Special Construction

Special construction is required when suitable facilities are not available to meet a customer's order for service and one or more of the following conditions exist:

- The Telephone Company has no other requirement for the facilities constructed at the customer's request;
- The customer requests that service be furnished using a type of facility, or via a route, other than that which the Telephone Company would otherwise utilize in furnishing the requested service;
- The customer requests the construction of more facilities than are required to satisfy its order for service;
- The customer requests construction be expedited resulting in added cost to the Telephone Company;
- The customer requests that temporary facilities be constructed until permanent facilities are available.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

10. Special Federal Government Access Services

10.1 General

This section covers Special Access Services that are provided to a customer for use only by agencies or branches of the Federal Government and other end users authorized by the Federal Government. Services provided to state emergency operations centers are included. These services provide for command and control communications, including communications for national security, emergency preparedness and presidential requirements. They are required to assure continuity of Government in emergency and crisis situations and to provide for national security.

Services for command and control communications and for national security and emergency preparedness sometimes require short notice and short duration service provisions. These provisions are especially needed to meet presidential requirements or in response to natural, man-made, or declared emergencies. Requirements of this type cannot be forecasted and are usually needed for a relatively short period. The provision of service under these conditions may require the availability of facilities, such as portable microwave equipment, which are provided on a temporary basis by the Telephone Company or customer.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.2 Emergency Conditions

These services will be provided on the date requested or as soon as possible thereafter when the emergency falls into one of the following categories:

- State of crisis declared by the National Command Authorities (includes commitments made to the National Communications System in the "National Plan for Emergencies and Major Disasters").
- Efforts to protect endangered U.S. personnel or property both in the U.S. and abroad. (Includes space vehicle recovery and protection efforts.)
- Communications requirements resulting from hostile action, a major disaster or a major civil disturbance.
- The director (Cabinet level) of a Federal department, Commander of a Unified/Specified Command, or head of a military department has certified that a communications requirement is so critical to the protection of life and property or to the National Defense that it must be processed immediately.
- Political unrest in foreign countries which affect the national interest.
- Presidential service.

10.3 Facility Availability

In order to insure communications during periods of emergency, the Telephone Company will, within the limits of good management, make available the necessary facilities to restore service in the event of damage or to provide temporary emergency service.

In order to meet the requirements of agencies or branches of the Federal Government, the Telephone Company may utilize government-owned facilities, when necessary to provide service.

10.4 Federal Government Regulations

In accordance with Federal Government Regulations, all service provided to the Federal Government will be billed in arrears. However, this provision does not apply to other customers that obtain services under the provisions of this tariff to provide their services to the Federal Government.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.5 Service Offerings to the Federal Government

The following unique services are provided to a customer for use only by agencies or branches of the Federal Government, other authorized users and state emergency operations centers. The rates and charges for these services shall be developed on an individual case basis and shall be consistent with the rates and charges for services offered in other sections of this tariff.

10.5.1 Type and Description

(A) Voice Grade Special Access Services

(1) Voice Grade Secure Communications Type I

Approximate bandwidth of 10-50,000 Hertz. Furnished for two-point secure communications on two-wire or four-wire metallic facilities between a customer designated premises and an end user's premises. Services are conditioned as follows:

T-3 Conditioning - The absolute loss (referenced to 1 milliwatt) with respect to frequency shall not exceed:

15 dB at 10 Hz
13 dB at 100 Hz
9 dB at 1,000 Hz
20 dB at 10,000 Hz
30 dB at 50,000 Hz

Additional conditioning (available in one or two directions on four-wire facilities only) to provide the following characteristics:

The absolute loss (referenced to one milliwatt) with respect to frequency shall not exceed:

0 dB at 1,000 Hz
 ± 1 dB between 1,000 Hz and 40,000 Hz (T)
 ± 2 dB between 10 Hz and 50,000 Hz (T)
(+ means more loss)

Effective Date: April 14, 1992

Authorized by PSCW Order _____ Letter April 14, 1992

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.5 Service Offerings to the Federal Government (Cont'd)

10.5.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(1) Voice Grade Secure Communications Type I
(Cont'd)

The net loss of the conditioned service (with or without additional conditioning) shall not vary by more than four dB at 1,000 Hz from the levels specified preceding. Voice frequency signaling or supervisory tones can be transmitted.

(2) Voice Grade Secure Communications Type II

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communications between a customer designated premises and an end user's premises. Services are conditioned as follows:

G-1 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same as Voice Grade Secure Communications Type I services without additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.5 Service Offerings to the Federal Government (Cont'd)

10.5.1 Type and Description (Cont'd)

(A) Voice Grade Special Access Services (Cont'd)

(3) Voice Grade Secure Communications Type III

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communications between a customer designated premises and an end user's premises. Services are conditioned as follows:

G-2 Conditioning - The absolute loss with respect to frequency and the net loss variation from the customer designated premises to the end user's premises shall be the same as Voice Grade Secure Communications Type I services without additional conditioning; from the end user's premises to the customer designated premises shall be the same as Voice Grade Secure Communications Type I services without additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

(4) Voice Grade Secure Communications Type IV

Approximate bandwidth 10-50,000 Hz. Furnished on four-wire metallic facilities for duplex operation for two-point secure communications between two customer designated premises. Services are conditioned as follows:

G-3 Conditioning - The absolute loss with respect to frequency and the net loss variation shall be the same in both directions of transmission as Voice Grade Secure Communications Type I services with additional conditioning. Voice frequency signaling or supervisory tones can be transmitted.

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Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.5 Service Offerings to the Federal Government (Cont'd)

10.5.1 Type and Description (Cont'd)

(B) Wideband Digital Special Access Services

Service arrangements for secured communications to accommodate the transmission of binary digital baseband signals in a random polar format.

(1) Wideband Secure Communications Type I

For transmission at the rate of 18,750 bits per second.

(2) Wideband Secure Communications Type II

For transmission at the rate of 50,000 bits per second.

(3) Wideband Secure Communications Type III

To accommodate the transmission of restored polar two-level facsimile signals with a minimum signal element width of twenty micro- seconds at a rate of 50,000 bits per second.

To accommodate the transmission of binary digital baseband signals in a random polar format at the rate of 50,000 bits per second.

10.5.2 Mileage Application

Mileage, when used for rate application between the serving wire centers of two customer designated premises, shall be determined by the V and H Coordinates Method as set forth in WISCONSIN ACCESS CHARGE TARIFF P.S.C. NO. 2 and administered as set forth in 7.2.5 preceding.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.6 Rates and Charges

10.6.1 General

The rates and charges for special offerings to the federal government, such as those set forth in 10.5 preceding, are developed on an individual case basis and are set forth in 17.4.5 following.

10.6.2 Voice Grade Special Access

The provision of T-3 and G conditioned services contemplates station and tandem switching operations, using customer provided equipment, as well as Special Access Service. Separate narrowband or voice grade services, where required by the customer provided equipment or switching operation, are furnished in accordance with the applicable sections of this tariff.

10.6.3 Move Charges

- (A) When a service without a termination charge associated with it, as set forth in 17.4.5 following, is moved to a different building, the nonrecurring charge applies; when a service is moved to a new location in the same building, a charge of one-half the nonrecurring charge applies.
- (B) When service with a termination charge associated with it, as set forth in 17.4.5 following, is moved and is reinstalled at a new location, the customer may elect:
- to pay the unexpired portion of the termination charge for the service, if any, with the application of a nonrecurring charge and the establishment of a new termination charge for such service at the new location, or
 - to continue service subject to the unexpired portion of the termination charge, if any, and pay the estimated costs of moving such service, provided that the customer requests these charges be quoted prior to ordering the service move. Charges for moving such service will be based on estimated costs attributable to the move.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

10. Special Federal Government Access Services (Cont'd)

10.6 Rates and Charges (Cont'd)

10.6.3 Move Charges (Cont'd)

(B) (Cont'd)

Move charges include the estimated costs of removal, restoration of services or facilities necessitated by the move, transportation, storage, reinstallation, engineering, labor, supervision, materials, administration, and any other specific items of cost directly attributable to the move.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

11. Special Facilities Routing of Access Services

11.1 Description

The services provided under this tariff are provided over such routes and facilities as the Telephone Company may elect. Special Facilities Routing is involved when, in order to comply with requirements specified by the customer, the Telephone Company provides Switched Access Service, Special Access Service or Special Federal Government Access Service in a manner which includes one or more of the following conditions:

11.1.1 Diversity

Two or more circuits must be provided over not more than two different physical routes.

11.1.2 Avoidance

A circuit(s) must be provided on a route which avoids specified geographical locations.

11.1.3 Diversity and Avoidance Combined

11.1.4 Cable-Only Facilities

Certain Voice Grade services are provided on Cable-Only Facilities to meet the particular needs of a customer.

Service is provided subject to the availability of Cable-Only facilities. In the event of service failure, restoration will be made through the use of any available facilities as selected by the Telephone Company.

Avoidance and Diversity are available on Switched Access Service as set forth in Section 6. preceding; Metallic, Telegraph Grade and Voice Grade Special Access Services as set forth respectively in 7.4, 7.5 and 7.6 preceding and Special Federal Government Access Services as set forth in 10.5 preceding. Cable-Only Facilities are available for Switched Access Service as set forth in Section 6. preceding; Voice Grade Special Access Services as set forth in 7.6 preceding and Special Federal Government Access Services as set forth in 10.5 preceding.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

11. Special Facilities Routing of Access Services (Cont'd)

11.1 Description (Cont'd)

In order to avoid the compromise of special routing information, the Telephone Company will provide the required routing information for each specially routed service to only the ordering customer. If requested by the customer, this information will be provided when service is installed and prior to any subsequent changes in routing.

The rates and charges for Special Facilities Routing of Access Services are developed on an individual case basis. Such rates and charges for Special Facilities Routing of Access Services are as set forth in 17.4.6 following and are in addition to all other rates and charges that may be applicable for services provided under other sections of this tariff.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

12. Specialized Service Or Arrangements

12.1 General

Specialized Service or Arrangements may be provided by the Telephone Company, at the request of a customer, on an individual case basis if such service or arrangements meet the following criteria:

- The requested service or arrangements are not offered under other sections of this tariff.
- The facilities utilized to provide the requested service or arrangements are of a type normally used by the Telephone Company in furnishing its other services.
- The requested service or arrangements are provided within a LATA.
- The requested service or arrangements are compatible with other Telephone Company services, facilities, and its engineering and maintenance practices.
- This offering is subject to the availability of the necessary Telephone Company personnel and capital resources.

Rates and charges and additional regulations if applicable, for Specialized Service or Arrangements are provided on an individual basis.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services

13.1 addresses Additional Engineering. 13.2 addresses Additional Labor (which is comprised of Overtime Installation, Overtime Repair, Stand by, Testing and Maintenance with Other Telephone Companies, and Other Labor). 13.3 addresses Miscellaneous Services (which are comprised of Testing Services, Maintenance of Service and Restoration Priority). 13.4 addresses Presubscription on an intrastate interlata basis only.

In this section, normally scheduled working hours are an employee's scheduled work period on any given calendar day (e.g., 8:00 a.m. to 5:00 p.m.) for the application of rates based on working hours.

A Miscellaneous Service Order charge as described in 5.4.2 preceding may be applicable to services ordered from this section.

13.1 Additional Engineering

Additional Engineering, including engineering reviews as set forth in 5.4.3 preceding, will be undertaken only after the Telephone Company has notified the customer that additional engineering charges apply as set forth in 17.4.2 following, and the customer agrees to such charges.

Additional Engineering will be provided by the Telephone Company at the request of the customer only when:

- (A) A customer requests additional technical information after the Telephone Company has already provided the technical information normally included on the Design Layout Report (DLR) as set forth in 6.1.5 and 7.1.6 preceding.
- (B) Additional engineering time is incurred by the Telephone Company to engineer a customer's request for a customized service as set forth in 7.1.2 preceding.
- (C) A customer requested Design Change requires the expenditure of additional engineering time. Such additional engineering time is incurred by the Telephone Company for the engineering reviews set forth in 5.4.3 preceding. The charge for additional engineering time relating to the engineering review, which is undertaken to determine if a design change is indeed required, will apply whether or not the customer authorizes the Telephone Company to proceed with the Design Change. In this case the Design Change charge, as set forth in 17.4.1(B) following, does not apply unless the customer authorizes the Telephone Company to proceed with the Design Change.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.2 Additional Labor

Additional Labor is that labor requested by the customer on a given service and agreed to by the Telephone Company as set forth in 13.2.1 through 13.2.5 following. The Telephone Company will notify the customer that additional labor charges as set forth in 17.4.3 following will apply before any additional labor is undertaken. When provisioning or restoring Telecommunications Service Priority services, the Telephone Company will, when possible, notify the customer of the applicability of these Additional Labor charges.

(N)
|
(N)

13.2.1 Overtime Installation

Overtime installation is that Telephone Company installation effort outside of normally scheduled working hours.

13.2.2 Overtime Repair

Overtime repair is that Telephone Company effort performed outside of normally scheduled working hours.

13.2.3 Stand by

Stand by includes all time in excess of one-half (1/2) hour during which Telephone Company personnel stand by to make installation acceptance tests or cooperative tests with a customer to verify facility repair on a given service.

13.2.4 Testing and Maintenance with Other Telephone Companies

Additional testing, maintenance or repair of facilities which connect other telephone companies is that which is in addition to the normal effort required to test, maintain or repair facilities provided solely by the Telephone Company.

13.2.5 Other Labor

Other labor is that additional labor not included in 13.2.1 through 13.2.4 preceding and labor incurred to accommodate a specific customer request that involves only labor which is not covered by any other section of this tariff.

Effective Date: April 14, 1992

Authorized by PSCW Order _____ Letter April 14, 1992

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.3 Miscellaneous Services

13.3.1 Testing Services

Testing Services offered under this section of the tariff are optional and subject to rates and charges as set forth in 17.4.4 following. Other testing services, as described in 6.2.4 and 7.1.7 preceding, are provided by the Telephone Company in association with Access Services and are furnished at no additional charge.

Testing services are normally provided by Telephone Company personnel at Telephone Company locations. However, provisions are made in (B)(2) following for a customer to request Telephone Company personnel to perform testing services at the customer designated premises.

The offering of Testing Services under this section of the tariff is made subject to the availability of the necessary qualified personnel and test equipment at the various test locations mentioned in (A) and (B) following.

(A) Switched Access Service

Testing Services for Switched Access are comprised of (a) tests which are performed during the installation of a Switched Access Service, i.e., Acceptance Tests, (b) tests which are performed after customer acceptance of such access services and which are without charge i.e., routine testing and (c) additional tests which are performed during or after customer acceptance of such access services and for which additional charges apply, i.e., Additional Cooperative Acceptance Tests and in-service tests.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

Routine tests are those tests performed by the Telephone Company on a regular basis, as set forth in 6.2.4 preceding which are required to maintain Switched Access Service. Additional in-service tests may be done on an automatic basis (no Telephone Company or customer technicians involved), on a manual basis [Telephone Company technician(s) involved at Telephone Company office(s) and Telephone Company or customer technician(s) involved at the customer designated premises].

Testing services are ordered to the Dial Tone Office for Interlata FGA, to the access tandem or end office for FGB (wherever the FGB service is ordered) and to the end office for FGs C and D. (T)

(1) Additional Cooperative Acceptance Testing

Additional Cooperative Acceptance Testing of Switched Access Service involves the Telephone Company provision of a technician at its office(s) and the customer provision of a technician at its premises, with suitable test equipment to perform the required tests.

Additional Cooperative Acceptance Tests may, for example, consist of the following tests:

- o Impulse Noise
- o Phase Jitter
- o Signal to C-Notched Noise Ratio
- o Intermodulation (Nonlinear) distortion
- o Frequency Shift (Offset)
- o Envelope Delay Distortion
- o Dial Pulse Percent Break

Effective Date: April 14, 1992

Authorized by PSCW Order _____ Letter April 14, 1992

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(2) Additional Automatic Testing

Additional Automatic Testing (AAT) of Switched Access Services (Feature Groups B, C and D), is a service where the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent. The customer may order, at additional charges, gain-slope and C-notched noise testing and may order the routine tests (1004 Hz loss, C-Message Noise and Balance) on an as needed or more than routine schedule.

The Telephone Company will provide an AAT report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

The Additional Tests, (i.e., gain slope, C-notched noise, 1004 Hz loss, C-message noise and balance) may be ordered by the customer at additional charges, 60 days prior to the start of the customer prescribed schedule. The rates for Additional Automatic Tests are as set forth in 17.4.4(B) following.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(3) Additional Manual Testing

Additional Manual Testing (AMT) of Switched Access Services (Feature Groups A, B, C and D not routed through an access tandem), is a service where the Telephone Company provides a technician at its office(s) and the Telephone Company or customer provides a technician at the customer designated premises, with suitable test equipment to perform the required tests. Such additional test will normally consist of gain-slope and C-notched noise testing. However, the Telephone Company will conduct any additional tests which the IC may request.

The Telephone Company will provide an AMT report listing the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on a per occurrence basis.

The Additional Manual Tests may be ordered by the customer at additional charges, 60 days prior to the start of the testing schedule as mutually agreed to by the customer and the Telephone Company.

The rates for Additional Manual Testing are as set forth in 17.4.4(C) following.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(4) Obligations of the Customer

- (A) The customer shall provide the Remote Office Test Line priming data to the Telephone Company, as appropriate, to support routine testing as set forth in 6.2.4(B) preceding or AAT as set forth in 13.3.1(A)(2) preceding.
- (B) The customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(B) Special Access Service

The Telephone Company will provide assistance in performing specific tests requested by the customer.

(1) Additional Cooperative Acceptance Testing

When a customer provides a technician at its premises or at an end user's premises, with suitable test equipment to perform the requested tests, the Telephone Company will provide a technician at its office for the purpose of conducting Additional Cooperative Acceptance Testing on Voice Grade Services. At the customer's request, the Telephone Company will provide a technician at the customer's premises or at the end user premises. These tests may, for example, consist of the following:

- Attenuation Distortion (i.e., frequency response)
- Intermodulation Distortion (i.e., harmonic distortion)
- Phase Jitter
- Impulse Noise
- Envelope Delay Distortion
- Echo Control
- Frequency Shift

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.1 Testing Services (Cont'd)

(B) Special Access Service (Cont'd)

(2) Additional Manual Testing

The Telephone Company will provide a technician at its premises and the Telephone Company or customer will provide a technician at the customer's designated premises with suitable test equipment to perform the requested tests.

(3) Obligation of the Customer

When the customer subscribes to Testing Service as set forth in this section, the customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.2 Maintenance of Service

- (A) When a customer reports a trouble to the Telephone Company for clearance and no trouble is found in the Telephone Company's facilities, the customer shall be responsible for payment of a Maintenance of Service charge as set forth in 17.4.4(F) following for the period of time from when Telephone Company personnel are dispatched at the request of the customer, to the customer designated premises to when the work is completed. Failure of Telephone Company personnel to find trouble in Telephone Company facilities will result in no charge if the trouble is actually in those facilities, but not discovered at the time.
- (B) The customer shall be responsible for payment of a Maintenance of Service charge when the Telephone Company dispatches personnel to the customer designated premises, and the trouble is in equipment or communications systems provided by other than the Telephone Company or in detariffed CPE provided by the Telephone Company.

In either (A) or (B) preceding, no credit allowance will be applicable for the interruption involved if the Maintenance of Service Charge applies.

13.3.3 Telecommunications Service Priority - TSP

(T)

- (A) Priority installation and/or restoration of National Security Emergency Preparedness (NSEP) telecommunications services shall be provided in accordance with Part 64.401, Appendix A, of the Federal Communications Commission's (FCC's) Rules and Regulations.

(N)

In addition TSP System service shall be provided in accordance with the guidelines set forth in "Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook" (NCSH 3-1-2) dated July 9, 1990, and "Telecommunications Service Priority System for National Security Emergency Preparedness Service User Manual" (NCSM 3-1-1).

(N)

Effective Date: April 14, 1992

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ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.3 Telecommunications Service Priority - TSP (Cont'd)

(N)

The TSP System is a service, developed to meet the requirements of the Federal Government, as specified in the Service Vendor's Handbook and Service User's Manual which provides the regulatory, administrative and operational framework for the priority installation and/or restoration of NSEP telecommunications services. These include both Switched and Special Access Services. The TSP System applies only to NSEP telecommunications services, and requires and authorizes priority action by the Telephone Company providing such services.

For Switched Access Service, the TSP System's applicability is limited to those services which the Telephone Company can discreetly identify for priority provisioning and/or restoration.

- (B) A Telecommunications Service Priority charge applies as set forth in 17.4.4 when a request to provide or change a Telecommunications Service Priority is received subsequent to the issuance of an Access Order to install the service.

Additionally, a Miscellaneous Service Order Charge as set forth in 17.4.1 will apply to Telecommunications Service Priority requests that are ordered subsequent to the initial installation of the associated access service.

A Telecommunications Service Priority charge does not apply when a Telecommunications Service Priority is discontinued or when ordered coincident with an Access Order to install or change service.

In addition, Additional Labor rates as set forth in 17.4.3 may be applicable when provisioning or restoring Switched or Special Access Services with Telecommunications Service Priority.

When the customer requests an audit or a reconciliation of the Telephone Company's Telecommunications Service Priority records, a Miscellaneous Service Order Charge as set forth in 17.4.1(D) and Additional Labor rates as set forth in 17.4.3 are applicable.

(N)

Effective Date: April 14, 1992

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ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.4 Miscellaneous Equipment

(A) Controller Arrangement

This arrangement enables the customer to control up to 48 transfer functions at a Telephone Company central office via a remote keyboard terminal capable of either 300 or 1200 bps operation. Included as part of the Controller Arrangement is a dial-up data station located at the Telephone Company Central Office to provide access to the Controller Arrangement. This dial-up data Station consists of a 212A DATAPHONE data set and an appropriate Telephone Company provided channel.

The Controller Arrangement must be located in the same Telephone Company central office as the transfer functions which it controls.

Charges for the Controller Arrangement are set forth in 17.4.4(H) following.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.4 Presubscription (T)

13.4.1 InterLATA Presubscription (T)

Pursuant to the Federal Communications Commission's Memorandum Opinion and Order, CC Docket No. 83-1145, Phase I, adopted May 31, 1985, and released June 12, 1985, the Allocation Plan, outlined in the Appendix B of this Order, will be available for inspection in the Public Reference Room of the Tariff Division at the Federal Communications Commission's Washington, D.C., location or may be obtained from the Commission's commercial contractor.

- (A) Presubscription is the process by which end user customers may select and designate to the Telephone Company an IC to access, without an access code, intrastate calls. This IC is referred to as the end user's predesignated IC.
- (B) On the effective date of this tariff, all existing end users have access to intrastate MTS/WATS. No later than 85 days prior to conversion to Feature Group D in a serving end office, the Telephone Company will notify end users of the availability of equal access in their particular area. The notification will include the names of all ICs wishing to participate in the presubscription process. This notification will be sent via U.S. Mail to each end user of record served by the end office to be converted.
- (C) End users may select one of the following options at no charge:
 - indicate a primary IC for all of its lines,
 - indicate a different IC for each of its lines.

Only one IC may be selected for each line or lines terminating in the same hunt group.

End users may designate that they do not want to presubscribe to any IC. The end user must arrange this designation by directly notifying the Telephone Company's business office. This choice will require the end user to dial an access code (10XXX or 101XXXX) for all intrastate calls.

After the end user's initial selection of a predesignated IC or the designation that they do not want to presubscribe to any IC, for any change in selection after conversion to Equal Access in the serving end office, a nonrecurring charge, as set forth in 17.4.4(I) following applies.

Effective Date: _____

Authorized by PSCW Order _____ Letter NOV 4 1996

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.4.1 InterLATA Presubscription (Cont'd)

(T)

- (D) End users not responding to the initial notification will be sent a second notification for the selection of a predesignated IC no earlier than 40 days prior to or no later than 90 days after the conversion to Equal Access in a serving end office. This second notification will indicate the primary IC that has been assigned to them if they fail to respond to the second notification.

After the allocation process has been completed, end users assigned to an IC via the allocation process may change their IC one time within six months after conversion to Equal Access in the serving end office at no charge.

Following the six month period after conversion to Equal Access for any change in selection, a nonrecurring charge as set forth in 17.4.4(I) following, applies.

- (E) When an end user indicates more than one IC selection on the return notification or returns an illegible return notification, the Telephone Company will contact the end user for clarification. If the end user indicates an IC selection on the return notification that does not match with information provided by an IC and both notifications indicate the same authorization date, the end user's notification takes precedence and the Telephone Company will process the end user's selection. In the event that two or more ICs provide to the Telephone Company notifications with the same authorization date and neither notification has been processed, the Telephone Company will contact the end user for clarification. A list of these customers in conflict must be sent to the affected IC by the Telephone Company.

In the event that two or more ICs have provided to the Telephone Company notifications with the same authorization date(s), and one IC notification has already been processed by the Telephone Company, those IC notifications not yet processed would be returned to the ICs.

Effective Date: _____

Authorized by PSCW Order _____ Letter NOV 4 1996

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.4.1 InterLATA Presubscription) (Cont'd)

(T)

(F) New end users who are served by end offices equipped with Feature Group D will be asked to presubscribe to an IC at the time they place an order with the Telephone Company for Telephone Exchange Service. They may select either of the following options. There will be no charge for this initial selection:

- designate a primary IC for all of its lines,
- designate a different IC for each of its lines.

Only one IC may be selected for each individual line, or lines terminating in the same hunt group. Subsequent to the installation of Telephone Exchange Service and after the end user's initial selection of a predesignated IC, for any change in selection, a nonrecurring charge, as set forth in 17.4.4(I) following, applies.

(G) If the new end user fails to designate an IC as its pre-designated IC prior to the date of installation of Telephone Exchange Service, the Telephone Company will (1) allocate the end user to an IC based upon current IC presubscription ratios, (2) require the end user to dial an access code (10XXX or 101XXX) for all intrastate calls, or (3) block the end user from intrastate calling. The end user will be notified which option will be applied if they fail to presubscribe to an IC. An allocated or blocked end user may designate another, or initial, IC as its predesignated IC one time at no charge, if it is requested within six months after the installation of Telephone Exchange Service.

For any change in selection after 6 months from the installation of Telephone Exchange Service, a nonrecurring charge, as set forth in 17.4.4(I) following, applies.

Effective Date: _____

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ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.4.1 InterLATA Presubscription (Cont'd)

(T)

- (H) If an IC elects to discontinue its Feature Group D Service offering prior to or within 2 years of the conversion, the IC will notify the Telephone Company of the cancellation. The IC will also notify all end users which selected them that they are cancelling their service and that they should contact the Telephone Company to select a new primary IC. The IC will also inform the end user that it will pay the presubscription change charge. The cancelling IC will then be billed by the Telephone Company the appropriate charge for each end user for a period of two years from the discontinuance of Feature Group D Service.

13.4.2 IntraLATA Presubscription

(N)

(A) General

IntraLATA Presubscription is a procedure whereby a subscriber designates to the Telephone Company the carrier which the subscriber wishes to be the carrier of choice for calls subject to IntraLATA Presubscription, as described in (B) following. Such calls are automatically directed to the designated carrier, without any specific codes or number being dialed or pulsed by the subscriber.

The Telephone Company does not offer intraLATA presubscription service and exempts itself from the intraLATA presubscription section of this tariff, until the Telephone Company has filed in Section 17.4.4(J) of the tariff the date on which it offers intraLATA presubscription.

(B) Calls Subject to IntraLATA Presubscription

The following calls ("usage calls") are subject to IntraLATA Presubscription:

1. All IntraLATA toll message calls. An IntraLATA toll message call is a completed call on the public switched network between the originating location and a terminating location within a given LATA, but outside the local service area of the originating location.

(N)

Effective Date: _____

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ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.4.2 IntraLATA Presubscription (Con't)

(N)

(C) Calls Specifically Excluded from IntraLATA Presubscription

All 0- calls, calls to 1-HNPA-555-1212 or 555-1212, 411, 611, 911, Public Announcement Service calls (976-XXXX), and all local calls, including Extended Area Service (EAS) and Extended Community Calling (ECC) calls, are specifically excluded from IntraLATA Presubscription.

Calls using the 500, 700, 800 series, or 900 service access codes shall be routed in accordance with the North American Numbering Plan.

(D) IntraLATA Presubscription Options

Option A - Subscriber selects a single carrier as the subscribed carrier for all IntraLATA usage calls subject to IntraLATA Presubscription and InterLATA usage calls.

Option B - Subscriber selects a carrier as the subscribed carrier for IntraLATA usage calls subject to IntraLATA Presubscription and a different carrier as the subscribed carrier for all InterLATA usage calls.

Option C - Subscriber selects no carrier for Intra and/or InterLATA usage calls.

(E) Rules and Regulations

Subscribers of record on the effective date of this tariff will retain their current dialing arrangements until they request that they be changed.

Subscribers of record or new subscribers may select either Options A, B, or C as their IntraLATA Presubscription choice.

Subscribers may change their selected option at any time subject to charges specified in (F) following.

(N)

Effective Date: _____

Authorized by PSCW Order _____ Letter NOV 4 1996

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.4.2 IntraLATA Presubscription (Con't)

(N)

(F) IntraLATA Presubscription Charges

(1) Application of Charges

The Telephone Company will notify subscribers of IntraLATA Presubscription through Telephone Company bill inserts, at least 30 days prior to availability in their exchange. The notice will contain a description of IntraLATA Presubscription, the presubscription choices, how to select among presubscription choices, and related charges.

New subscribers will be asked to select a carrier(s) at the time they place an order with the Telephone Company for Telephone Exchange Service.

InterLATA Presubscription Charges per Section 17.4.4(I) of this Tariff and IntraLATA Presubscription Charges, as set forth in 17.4.4.(J) apply when the subscriber simultaneously changes the carrier(s) selected for intraLATA and interLATA usage calls.

(N)

Effective Date: _____

Authorized by PSCW Order _____ Letter NOV 4 1996

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services
(Cont'd)

13.5 Verification of Orders for Long Distance Telemarketing

No IC shall submit to the Telephone Company a Primary Interexchange Carrier (PIC) change order generated by telemarketing unless and until the order has first been confirmed in accordance with one of the following procedures:

(A) The IC obtains the billed party's (e.g., an end user or the designator of the PIC for a pay telephone) written authorization to submit the PIC change order. The written authorization shall take the form of a letter of agency which:

- shall be a separate document whose sole purpose is to authorize an interexchange carrier to initiate a primary interexchange carrier change.
- shall be signed and dated by the billed party of the telephone line(s) requesting the primary interexchange carrier change.
- shall not be combined with inducements of any kind on the same document.
- shall not suggest or require that the billed party take some action in order to retain the billed party's current interexchange carrier.
- shall have all portions translated into another language if any portion of the letter of agency is translated into another language.

(N)

(N)

Effective Date: _____

Authorized by PSCW Order _____ Letter NOV 4 1996

ACCESS SERVICE

14. Exceptions to Access Service Offerings

The services offered under the provisions of this tariff are subject to availability as set forth in 2.1.4 preceding. In addition, the following exceptions apply:

(Paragraphs 14.1 through 14.5 following are reserved for future listings as a result of a subsequent survey. In the meantime, in planning an end-to-end service, the customer should contact the Telephone Company in each customer designated premises city to assure itself that all of the service or service components required for a given customer service are currently available.)

- 14.1 The following service(s) is (are) not offered in the operating territory of listed Issuing Carriers.

(Reserved for future use.)

- 14.2 The following offering(s) is (are) limited to existing locations. No inside moves, rearrangements or additions will be permitted.

(Reserved for future use.)

- 14.3 The following offering(s) is (are) limited to existing locations. Inside moves or rearrangements may be undertaken. However, no additions will be permitted.

(Reserved for future use.)

- 14.4 The following offering(s) is (are) limited to existing locations where addition units may be added for growth. Inside moves or rearrangements may be undertaken.

(Reserved for future use.)

- 14.5 The following offering(s) is (are) limited to existing locations where additional units may be added for growth. However, inside moves or rearrangements will not be permitted.

(Reserved for future use.)

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ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications

15.1 contains Switched Access Service Options (which are comprised of Interface Groups, Supervisory Signaling, Entry Switch Receive Level and Transport Termination) and Transmission Specifications. 15.2 describes Special Access Service Network Channel (NC) codes and Network Channel Interface (NCI) codes. 15.3 contains Interface Group, Premises Interface code and standard Transmission specifications applicable to Directory Access Service.

15.1 Switched Access Service

Ten Interface Groups are provided for terminating the Transport at the customer's designated premises. Each Interface Group provides a specified premises interface (e.g., two-wire, four-wire, DSL, etc.). Where transmission facilities permit, the individual transmission path between the customer's designated premises and the first point of switching may, at the option of the customer, be provided with optional features as set forth in 15.1.1 following.

As a result of the customer's access order and the type of Telephone Company transport facilities serving the customer designated premises, the need for signalling conversions or two-wire to four-wire conversions, or the need to terminate digital or high frequency facilities in channel bank equipment may require that Telephone Company equipment be placed at the customer designated premises. For example, if a voice frequency interface is ordered by the customer and the Telephone Company facilities serving the customer designated premises are digital, then Telephone Company channel bank equipment must be placed at the customer designated premises in order to provide the voice frequency interface ordered by the customer.

15.1.1 Transport Interface Groups

Interface Groups are combinations of technical parameters which describe the Telephone Company handoff at the point of termination at the customer designated premises. The technical specifications concerning the available interface groups are set forth in (A) through (D) following.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Transport Interface Groups (Cont'd)

Interface Group 1 is provided with Type C Transmission Specifications, as set forth in 15.1.2(C) following, and Interface Groups 2 through 10 are provided with Type A or B Transmission specifications, as set forth respectively in 15.1.2(E) and (F) following, depending on the Feature Group and whether the Access Service is routed directly or through an access tandem. All Interface Groups are provided with Data Transmission Parameters.

Only certain premises interfaces are available at the customer designated premises. The premises interfaces associated with the Interface Groups may vary among Feature Groups.

(A) Interface Group 1

Interface Group 1, except as set forth in the following, provides two-wire voice frequency transmission at the point of termination at the customer designated premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

Interface Group 1 is not provided in association with FGC and FGD when the First point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with FGB, FGC or FGD when the first point of switching provides only four-wire terminations.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Transport Interface Groups (Cont'd)

(A) Interface Group 1 (Cont'd)

The transmission path between the point of termination at the customer designated premises and the first point of switching may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of 300 to 3000 Hz.

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signalling will be loop start or ground start signaling. When the interface is associated with FGB, FGC or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(B) Interface Group 2

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the customer designated premises. The interface is capable of transmission of voice and associated telephone signals within the frequent bandwidth of approximately 300 to 3000 Hz.

The transmission path between the point of termination at the customer designated premises and the first point of switching may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Transport Interface Groups (Cont'd)

(B) Interface Group 2 (Cont'd)

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB, FGC or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(C) Interface Groups 3 through 5

Interface Groups 3 through 5 provide analog transmission at the point of termination at the customer designated premises. The various interfaces are capable of transmitting electrical signals at the frequencies illustrated following, with the capability to channelize voice frequency transmission paths. Certain frequencies within the bandwidth of the Interface Groups are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex equipment to derive the transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

The interfaces are provided with individual transmission path SF supervisory signaling.

<u>Interface Group</u>	<u>Transmission</u>	<u>Analog</u>	<u>Maximum No. of</u>
<u>Identification No.</u>	<u>Frequency Bandwidth</u>	<u>Hierarchy Level</u>	<u>Channelized Voice</u>
			<u>Freq. Trans. Paths</u>
3	60 - 108 kHz	Group	12
4	312 - 552 kHz	Supergroup	60
5	546 - 3084 kHz	Mastergroup	600

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Transport Interface Groups (Cont'd)

(D) Interface Groups 6 through 10

Interface Groups 6 through 10 provide digital transmission at the point of termination at the customer designated premises. The various interfaces are capable of transmitting electrical signals at the nominal bit rates illustrated following, with the capability to channelize voice frequency transmission paths. Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide, at the first point of switching, a DS1 signal(s) in D3/D4 format.

The interfaces are provided with individual transmission path bit stream supervisory signaling.

Interface Group Identification No.	Nominal Bit Rate (Mbps)	Digital Hierarchy Level	Max. No. of Channelized Voice Freq. Trans. Paths
6	1.544	DS1	24
7	3.152	DS1C	48
8	6.312	DS2	96
9	44.736	DS3	672
10	274.176	DS4	4032

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Transport Interface Groups (Cont'd)

(E) Transport Optional Features

Where transmission facilities permit, the Telephone Company will, at the option of the customer, provide the following features in association with Transport. An Access Order Charge as Specified in 17.4.1(A) following is applicable on a per order basis when nonchargeable optional features are added subsequent to the installation of service.

- Customer Specified Entry switch Receive Level

Customer Specified Entry Switch Receive Level allows the customer to specify the receive transmission level at the first point of switching. The range of transmission levels which may be specified is described in Technical Reference TR-NPL-000334. This feature is available with Interface Groups 2 through 10 for Feature Groups A and B.

- Customer Specification of Transport Termination

Customer Specification of Transport Termination allows the customer to specify, for Feature Group B routed directly to an end office or access tandem, a four-wire termination of the Transport at the first point of switching in lieu of a Telephone Company selected two-wire termination. This option is available only when the Feature Group B arrangement is provided with Type B Transmission Specifications.

- Supervisory Signaling

Supervisory Signaling allows the customer to order an optional supervisory signaling arrangement for each transmission path provided where the transmission parameters permit, and where signaling conversion is required by the customer to meet its signaling capability.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Transport Interface Groups (Cont'd)

(E) Transport Optional Features

The Interface Groups, as described in (A) through (D) preceding, represent industry standard arrangements. Where transmission parameters permit, the customer may select the following optional signaling arrangements in place of the signaling arrangements standardly associated with the Interface Groups.

- For Interface Groups 1 and 2 associated with FGB, FGC or FGD.

DX Supervisory Signaling,
E&M Type I Supervisory Signaling,
E&M Type II Supervisory Signaling, or
E&M Type III Supervisory Signaling

- For interface Group 2 associated with FGB, FGC or FGD and in addition to the preceding

SF Supervisory Signaling, or
Tandem Supervisory Signaling

- For Interface Groups 3 through 5

Optional Supervisory Signaling Not Available

- For Interface Groups 6 through 10

These Interface Groups may, at the option of the customer, be provided with individual transmission path SF supervisory signaling where such signaling is available in Telephone Company central offices. Generally such signaling is available only where the first point of switching provides an analog (i.e., non digital) interface to the transport termination.

These optional Supervisory Signaling arrangements are not available in combination with the SS7 optional feature as described in 6.8.2.(C)(2) preceding.

(N)
|
(N)

Additionally, in (F) following, there is a matrix of available Premises Interface Codes as a function of Interface Group, Telephone Company Switch Supervisory Signaling and Feature Group.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Transport Interface Groups (Cont'd)

(F) Available Premises Interface Codes

Following is a matrix showing premises interface codes which are available for each Interface Group. Their availability is a function of the Telephone Company switch supervisory signaling and Feature Group. For explanations of these codes, see the Parameter Codes and Options as set forth in 15.2.2(A) following.

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group			
			A	B	C	D
1	LO	2LS2	X			
	LO	2LS3	X			
	GO	2GS2	X			
	GO	2GS3	X			
	LO, GO,	2DX3	X			
	LO, GO,	4EA3-E	X			
	LO, GO,	4EA3-M	X			
	LO, GO,	6EB3-E	X			
	LO, GO,	6EB3-M	X			
	RV, EA, EB, EC	2DX3		X	X	X
	RV, EA, EB, EC	4EA3-E		X	X	X
	RV, EA, EB, EC	4EA3-M		X	X	X
	RV, EA, EB, EC	6EB3-E		X	X	X
	RV, EA, EB, EC	6EB3-M		X	X	X
	EA, EB, EC	6EC3			X	X
	RV	2RV3-O		X	X	X
	RV	2RV3-T		X	X	X
	SS7	2NO2			X	X
2	LO, GO	4SF2	X			
	LO, GO	4SF3	X			
	LO	4LS2	X			
	LO	4LS3	X			
	LO	6LS2	X			

(N)

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Transport Interface Groups (Cont'd)

(F) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group			
			A	B	C	D
2 (Cont'd)	GO	4GS2	X			
	GO	4GS3	X			
	GO	6GS2	X			
	LO, GO	4DX2	X			
	LO, GO	4DX3	X			
	LO, GO	6EA2-E	X			
	LO, GO	6EA2-M	X			
	LO, GO	8EB2-E	X			
	LO, GO	8EB2-M	X			
	LO, GO	6EX2-B	X			
	RV, EA, EB, EC	4SF2		X	X	X
	RV, EA, EB, EC	4SF3		X		
	RV, EA, EB, EC	4DX2		X	X	X
	RV, EA, EB, EC	4DX3		X		
	RV, EA, EB, EC	6DX2			X	
	RV, EA, EB, EC	6EA2-E		X	X	X
	RV, EA, EB, EC	6EA2-M		X	X	X
	RV, EA, EB, EC	8EB2-E		X	X	X
	RV, EA, EB, EC	8EB2-M		X	X	X
	EA, EB, EC	8EC2-M			X	X
	RV	4RV2-O		X	X	X
	RV	4RV2-T		X	X	X
	RV	4RV3-O		X	X	
	RV	4RV3-T		X	X	
	SS7	4NO2			X	X
3	LO, GO	4AH5-B	X			
	RV, EA, EB, EC	4AH5-B		X	X	X
	SS7	4AH5-B			X	X
4	LO, GO	4AH6-C	X			
	RV, EA, EB, EC	4AH6-C		X	X	X
	SS7	4AH6-C			X	X
5	LO, GO	4AH6-D	X			
	RV, EA, EB, EC	4AH6-D		X	X	X
	SS7	4AH6-D			X	X

(N)

(N)

(N)

(N)

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.1 Transport Interface Groups (Cont'd)

(F) Available Premises Interface Codes (Cont'd)

Interface Group	Telephone Company Switch Supervisory Signaling	Premises Interface Code	Feature Group			
			A	B	C	D
6	LO, GO	4DS9-15	X			
	LO, GO	4DS9-15L	X			
	RV, EA, EB, EC	4DS9-15		X	X	X
	RV, EA, EB, EC	4DS9-15L		X	X	X
	SS7	4DS9-15			X	X
						(N)
7	LO, GO	4DS9-31	X			
	LO, GO	4DS9-31L	X			
	RV, EA, EB, EC	4DS9-31		X	X	X
	RV, EA, EB, EC	4DS9-31L		X	X	X
	SS7	4DS9-31			X	X
						(N)
8	LO, GO	4DS0-63	X			
	LO, GO	4DS0-63L	X			
	RV, EA, EB, EC	4DS0-63		X	X	X
	RV, EA, EB, EC	4DS0-63L		X	X	X
	SS7	4DS0-63			X	X
						(N)
9	LO, GO	4DS6-44	X			
	LO, GO	4DS6-44L	X			
	RV, EA, EB, EC	4DS6-44		X	X	X
	RV, EA, EB, EC	4DS6-44L		X	X	X
	SS7	4DS6-44			X	X
						(N)
10	LO, GO	4DS6-27	X			
	LO, GO	4DS6-27L	X			
	RV, EA, EB, EC	4DS6-27		X	X	X
	RV, EA, EB, EC	4DS6-27L		X	X	X
	SS7	4DS6-27			X	X
						(N)

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications

Descriptions of the transmission specifications available with each Feature Group as a function of the Interface Group selected by the customer, are set forth in (A) through (D) following. Descriptions of each of these Standard Transmission Specifications and the two Data Transmission Parameters mentioned are set forth respectively in (E) through (G) and 15.1.3(A) and (B) following:

(A) Feature Group A (Intrastate Interlata Only)

FGA is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGA to the first point of switching.

(B) Feature Group B

FGB is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the end office when routed directly or to the first point of switching when routed via an access tandem. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGB to the first point of switching.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(C) Feature Group C

FGC is provided with either Type B or Type C Transmission Specifications as follows:

- When routed directly to the end office either Type B or Type C is provided.
- When routed to an access tandem only Type B is provided.
- Type B or Type C is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1 when routed directly to an end office. Type B is provided with Interface Groups 2 through 10, whether routed directly to an end office or to an access tandem.

Type DB Data Transmission Parameters are provided with FGC for the transmission path between the customer designated premises and the end office when directly routed to the end office, and between the customer designated premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(D) Feature Group D

FGD is provided with either Type A, Type B or Type C Transmission Specifications as follows:

- When routed to the end office either Type B or C is provided.
- When routed to an access tandem only Type A is provided.
- Type A is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1. Type A and Type B Transmission Specifications are provided with Interface Groups 2 through 10.

Type DB Data Transmission Parameters are provided with FGD for the transmission path between the customer designated premises and the end office when directly routed to the end office. Type DA Data Transmission Parameters are provided for the transmission path between the customer designated premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

(E) Type A Transmission Specifications

Type A Transmission Specifications is provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 2.0 dB

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(E) Type A Transmission Specifications (Cont'd)

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -1.0 dB to +3.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	32 dBrnC0
51 to 100	34 dBrnC0
101 to 200	37 dBrnC0
201 to 400	40 dBrnC0
401 to 1000	42 dBrnC0

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone, is less than or equal to 45 dBrnC0.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(E) Type A Transmission Specifications (Cont'd)

(5) Echo Control

Echo Control, identified as Equal Level Echo Path Loss, and expressed as Echo Return Loss and Singing Return Loss, is dependent on the routing, i.e., whether the service is routed directly from the customer's point of connection (POC) to the end office or via an access tandem. It is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POC to Access Tandem	21 dB	14 dB
POC to End Office		
- Direct	N/A	N/A
- Via Access Tandem	16 dB	11 dB

(6) Standard Return Loss

Standard Return Loss expressed as Echo Return Loss and Singing Return Loss on two-wire ports of a four-wire point of termination shall be equal to or greater than:

<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
5 dB	2.5 dB

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(F) Type B Transmission Specifications

Type B Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 2.5 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type B1</u>	<u>Type B2</u>
less than 50	32 dBrnC0	35 dBrnC0
51 to 100	33 dBrnC0	37 dBrnC0
101 to 200	35 dBrnC0	40 dBrnC0
201 to 400	37 dBrnC0	43 dBrnC0
401 to 1000	39 dBrnC0	45 dBrnC0

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnC0.

* For Feature Groups C and D only Type B2 will be provided. For Feature Groups A and B, Type B1 or B2 will be provided as set forth in Technical Reference TR-NPL-000334.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(F) Type B Transmission Specifications (Cont'd)

(5) Echo Control

Echo Control, identified as Impedance Balance for FGA and FGB and Equal Level Echo Path Loss for FGC and FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer's point of connection (POC) to the end office or via an access tandem. The ERL and SRL also differ by Feature Group, type of terminations, and type of transmission path. They are greater than or equal to the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POC to Access Tandem		
- Terminated in 4-Wire trunk	21 dB	14 dB
- Terminated in 2-Wire trunk	16 dB	11 dB
POC to End Office		
- Direct	16 dB	11 dB
- Via Access Tandem		
. For FGB access	8 dB	4 dB
. For FGC access (Effective 4-Wire trans- mission path at end office)	16 dB	11 dB
. For FGD access (Effective 2-Wire trans- mission path at end office)	13 dB	6 dB

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(F) Type B Transmission Specifications (Cont'd)

(6) Standard Return Loss

Standard Return Loss, expressed as Echo Return Loss and Singing Return Loss, on two-wire ports of a four-wire point of termination shall be equal to or greater than:

Echo Return Loss

Singing Return Loss

5 dB

2.5 dB

(G) Type C Transmission Specifications

Type C Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ± 3.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 28-04 Hz frequency band relative to loss at 1004 Hz is -2.0 db to +5.5 dB.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(G) Type C Transmission Specifications (Cont'd)

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type C1</u>	<u>Type C2</u>
less than 50	32 dBrnC0	38 dBrnC0
51 to 100	33 dBrnC0	39 dBrnC0
101 to 200	35 dBrnC0	41 dBrnC0
201 to 400	37 dBrnC0	43 dBrnC0
401 to 1000	39 dBrnC0	45 dBrnC0

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnC0.

- * For Feature Groups C and D only Type C2 will be provided. For Feature Groups A and B, Type C1 or C2 will be provided as set forth in Technical Reference TR-NPL-000334.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(G) Type C Transmission Specifications (Cont'd)

(5) Echo Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	13 dB	6 dB
POT to End Office		
- Direct	13 dB	6 dB
- Via Access Tandem	8 dB	4 dB
(for FGB only)		

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(H) WATS Access Line Standard Transmission Specifications

(1) Standard Two-Wire Voice Transmission Specifications

(a) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is + 4.0 dB.

(b) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is 3.0 dB to +9.0 dB.

(c) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	35 dBrnC0
51 to 100	37 dBrnC0
101 to 200	40 dBrnC0
201 to 400	43 dBrnC0
401 to 1000	45 dBrnC0

(d) Echo Control

Return Loss for both Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL 6.0 dB
SRL 3.0 dB

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ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.2 Standard Transmission Specifications (Cont'd)

(H) WATS Access Line Standard Transmission Specifications (Cont'd)

(2) Standard Four-Wire Voice Transmission Specifications

(a) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -3.0 dB to +3.0 dB.

(b) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -1.0 dB to +4.5 dB.

(c) C-Message Noise

The Maximum C-Message Noise for the transmission on path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	35 dBrnC0
51 to 100	37 dBrnC0
101 to 200	40 dBrnC0
201 to 400	43 dBrnC0
401 to 1000	45 dBrnC0

(d) Echo Control

The Equal Level Echo Path Loss for both Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL 15.0 dB
SRL 9.0 dB

15.1.3 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Feature Group

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.3 Data Transmission Parameters (Cont'd)

arrangements. Type DB is provided with Feature Groups A, B and C and also with Feature Group D when Feature Group D is directly routed to the end office. Type DA is only provided with Feature Group D and only when routed via an access tandem. Following are descriptions of each.

(A) Data Transmission Parameters Type DA

(1) Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 33 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

less than 50 route miles	500 microseconds
equal to or greater than 50 route miles	900 microseconds

1004 to 2404 Hz

less than 50 route miles	200 microseconds
equal to or greater than 50 route miles	400 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	33 dB
Third Order (R3)	37 dB

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ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.3 Data Transmission Parameters (Cont'd)

(A) Data Transmission Parameters Type DA (Cont'd)

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 50 peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

(B) Data Transmission Parameters Type DB

(1) Signal to C-Notched Noise Ratio

The signal to C-Notched Noise Ratio is Equal to or greater than 30 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

less than 50 route miles	800 microseconds
equal to or greater than 50 route miles	1000 microseconds

1004 to 2404 Hz

less than 50 route miles	320 microseconds
equal to or greater than 50 route miles	500 microseconds

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ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.3 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB (Cont'd)

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnC0 threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 70 peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

(C) WATS Access Line Data Transmission Parameters

(1) Signal to C-Notched Noise Ratio

The maximum Signal-to-C-Notched Noise Ratio is 30 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands specified is:

1000 microseconds	604 to 2804 Hz
500 microseconds	1000 to 2404 Hz

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ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.3 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB (Cont'd)

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnC0 threshold is 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4 to 300 Hz frequency band is less than or equal to 7 peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

15.1.4 Wats Access Line

- Improved Two-Wire Voice Transmission Specifications

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is -4.0 dB to +4.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 280 Hz frequency band relative to loss at 1004 Hz is -2.0dB to +6.0 dB.

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ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.1 Switched Access Service (Cont'd)

15.1.4 WATS Access Line (Cont'd)

- Improved Two-Wire Voice Transmission Specifications (Cont'd)

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	35 dBrnC0
51 to 100	37 dBrnC0
101 to 200	40 dBrnC0
201 to 400	43 dBrnC0
401 to 1000	45 dBrnC0

(4) Return Loss

The Return Loss, expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is equal to or greater than:

ERL	13.0 dB
SRL	6.0 dB

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ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service

This section explains and lists the codes that the customer must specify when ordering Special Access Service. These codes provide a standardized means to relate the services being ordered to Special Access Service offerings contained in Section 7. preceding.

When ordering, the type of Special Access Service is described by two code sets, the Network Channel (NC) code and the Network Channel Interface (NCI) codes.

The Network Channel (NC) code consists of two elements. Element one is a Channel Service Code (character positions 1 and 2) that describes the channel service type in an abbreviated form. Element two is an Optional Feature Code (character positions 3 and 4) that identifies option codes available for each channel service code, such as C-conditioning or Improved Return Loss.

The Network Channel Interface (NCI) is used to identify interface specifications associated with a particular channel. This code describes the total wires, protocol, impedance, protocol options and transmission level point(s) reflecting physical and electrical characteristics between the Telephone Company and the customer.

On the following 3 pages are examples which explain the specific characters of the codes and which reference matrices and charts used in developing the codes. Included in the matrices are Service Designator (SD) codes which are used to identify variations of service within service types (e.g., TGl = Telegraph). The SD and NC codes are displayed as components of the matrices designated as Technical Specifications packages in (A) through (G) following. Through the use of these matrices, SD codes may be converted to NC codes for service ordering purposes.

A chart is also provided in 15.2.2(A) following which contains information necessary to develop NCI codes.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

Comprehensive lists of allowed Network Channel (NC) and Network Channel Interface (NCI) codes are contained in Special Report SR-ISD-000307. However, not all services contained in this Special Report may be offered by the Telephone Company at this time.

Lastly, 15.2.2(C) following provides a list of compatible Network Channel Interfaces inasmuch as the Network Channel Interfaces associated with a given service need not always be the same, but all must be compatible.

Example No. 1: If the customer wishes to order a 4-wire voice grade circuit with 600 Ohms impedance, capable of data transmission, and with improved return loss, the customer might specify the following:

NC	NCI	SECNCI
LG-R	04DB2	04DA2-S

NC Code:

LG - Voice Grade Channel Service, VG6
-R - Improved Return Loss

NCI Code:

04 - Number of physical wires at CDP
DB - Data stream in VF frequency band at the customer
designated main terminal location
2 - 600 Ohms impedance

SECNCI (Secondary NCI Code):

04 - Number of physical wires at CDP
DA - Data stream in VG frequency at the customer
designated secondary terminal location
2 - 600 Ohms impedance
S - Sealing current option for 4-wire transmission

In the above example the NCI (Network Channel Interface) code is the interface requested at the customer's POT (Point of Termination) and the SECNCI (Secondary Network Channel Interface) code represents the interface at the end office serving the End User.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

Example No. 2: If the customer wishes to order a FX circuit to a station, with 600 Ohms impedance, loop start signaling, which is 4-wire at the CDP and 2-wire at the end-user, the customer might specify:

NC	NCI	SECNCI
LC--	04L02	02LS2

NC Code:

LC - High Capacity Channel Service, HCl
-- - No Optional Features

NCI Code:

04 - Number of physical wires at CDP
L0 - Loop start, loop signaling - open end
2 - 600 Ohms impedance

SECNCI (Secondary NCI Code):

02 - Number of physical wires at CDP
LS - Loop start signaling - closed end
2 - 600 Ohms impedance

Example No. 3: If the customer wishes to order a 1.544 Mbps Hi-cap facility with no channel options such as CO multiplexing, the customer might specify the following:

NC	NCI	SECNCI
HC--	04DS9-15	04DS9-15

NC Code:

HC - High Capacity Channel Service, HCl
-- - No Optional Features

NCI, SECNCI Code:

04 - Number of physical wires at CDP
DS - Digital hierarchy interface
9 - 100 Ohms impedance
15 - 1.544 Mbps (DSL) format

The preceding three examples use information contained in Special Report SR-ISD-000307.

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ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes

In order to determine the NC code appropriate for the service to be ordered, the type of Special Access Service the customer wishes must be identified. This identification is accomplished by a Service Designator (SD) code. The broad categories of Service Designator codes (e.g., VG, MT, TG, etc.) are set forth in Section 7. preceding. Variations within service type (e.g., VG1, MTC, TG2, etc.) are described in the various Technical Publications cited in (A) through (G) following.

Having determined the specific service type to be ordered and its SD code, and having used the appropriate Technical Publication, the customer should match the SD code to the NC code using the following matrices. Once the NC code has been determined the Network Channel Interface (NCI) code may be developed using the information set forth in 15.2.2 following and the guidelines concerning specific parameters available for each service type as set forth in the specified Technical Publication.

(A) Technical Specifications Packages Metallic Service

SD Code NC Code	MTC* MQ	Package		MT3 NV
		MT1 NT	MT2 NU	
Parameter				
DC Resistance				
Between Conductors	X	X	X	
Loop Resistance	X			X
Shunt Capacitance	X			X
Optional Features and Functions				
Three Premises Bridging	X	X		X
Series Bridging	X		X	

The technical specifications are described in Technical Reference TR-NPL-000336.

* All parameters are available within ranges selected by the customer where technically feasible.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(B) Technical Specifications Packages Telegraph Grade Service

	SD Code NC Code	TGC* NQ	Package	
			TG1 NW	TG2 NY
Parameter				
Telegraph Distortion		X	X	X
Optional Features and Functions				
Telegraph Bridging		X	X	X

The technical specifications are described in
Technical Reference TR-NPL-000336

* All parameters are available within ranges selected by the customer where technically feasible.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(C) Technical Specifications Packages Voice Grade Service

	SD Code	C*	1	2	3	4	5	Package VG-				9	10	11	12	W
	NC Code	LQ	LB	LC	LD	LE	LF	6	7	8	LK	LN	LP	LR	SE	
<u>Parameter</u>																
Attenuation																
Distortion	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
C-Message Noise	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
Echo Control	X		X	X	X		X		X	X			X	X	X	
Envelope Delay																
Distortion	X							X	X	X	X	X	X	X	X	
Frequency Shift	X							X	X	X	X	X	X	X	X	
Impulse Noise	X						X	X	X	X	X	X	X	X	X	
Intermodulation																
Distortion	X							X	X	X	X	X	X		X	
Loss Deviation	X		X	X	X	X	X	X	X	X	X	X	X	X	X	
Phase Hits, Gain																
Hits, and Dropouts	X															
Phase Jitter	X							X	X	X	X	X	X		X	
Signal-to-C																
Message Noise						X										
Signal-to-C																
Notch Noise	X						X	X	X	X	X	X	X	X	X	

The technical specifications for these parameters (except for dropouts, phase hits, and gain hits) are described in Technical References TR-NPL-000334 and TR-TSY-000335. The technical specifications for dropouts, phase hits, and gain hits are described in Technical Reference PUB 41004, Table 4.

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* The desired parameters are selected by the customer from the list of available parameters.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(C) Technical Specifications Packages Voice Grade Service (Cont'd)

	SD Code	C*	1	2	3	4	5	6	7	8	9	10	11	12	W
	NC Code	LQ	LB	LC	LD	LE	LF	LG	LH	LJ	LK	LN	LP	LR	SE
Optional Features and Functions															
Central Office															
Bridging Capability		X		X			X	X				X	X	X	
Central Office Multiplexing		X						X							
Conditioning:															
. C-Type		X					X	X	X	X	X	X			
. Improved Attenuation Distortion		X					X	X	X	X	X	X			
. Improved Envelope Delay Distortion		X					X	X	X	X	X	X			
. Sealing Current		X						X							
. Data Capability		X						X	X			X			
. Telephoto Capability		X											X		
Customer Specified															
Premises Receive Level		X		X	X				X	X	X				
Improve Return Loss for Effective Four-Wire Transmission For Effective Two-Wire Transmission		X	X	X	X	X	X	X	X	X	X	X	X	X	
Improve Two-Wire Voice Transmission															X
PPSN Interface Arrangement		X									X				
Selective Signaling Arrangement		X		X			X	X				X	X	X	
Signaling Capability		X	X	X	X				X	X	X				
Transfer Arrangement		X	X	X	X	X	X	X	X	X	X	X	X	X	

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(D) Technical Specifications Packages Program Audio Service

SD Code NC Code	APC* PQ	Package			
		AP1 PE	AP2 PF	AP3 PJ	AP4 PK
Parameter					
Actual Measured Loss	X	X	X	X	X
Amplitude Tracking	X				
Crosstalk	X	X	X	X	X
Distortion Tracking	X				
Gain/Frequency					
Distortion	X	X	X	X	X
Group Delay	X				
Noise	X	X	X	X	X
Phrase Tracking	X				
Short-Term Gain					
Stability	X				
Short-Term Loss	X				
Total Distortion	X	X	X	X	X
Optional Features and Functions					
Central Office Bridging					
Capability	X	X	X	X	X
Gain Conditioning	X	X	X	X	X
Stereo	X				X

The technical specifications are described in
Technical Reference TR-NPL-000337 and associated Addendum. (T)

* The desired parameters are selected by the customer from the list of
available parameters.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(E) Technical Specifications Packages Video Service

	SD Code NC Code	TVC* TQ	Package TV1 TV	TV2 TW
Video Parameters				
Insertion Gain		X	X	X
Field-Time Distortion		X	X	X
Line-Time Distortion		X	X	X
Short-Time Distortion		X	X	X
Chrominance-Luminance Gain				
Inequality		X	X	X
Chrominance-Luminance Delay				
Inequality		X	X	X
Amplitude/Frequency Characteristic		X	X	X
Luminance Non-Linear Distortion		X	X	X
Chrominance Non-Linear Gain				
Distortion		X	X	X
Chrominance Non-Linear Phase				
Distortion		X	X	X
Transient Synchronizing Signal				
Non-Linearty		X	X	X
Dynamic Gain Distortion				
- Picture Signal		X	X	X
- Synchronizing Signal		X	X	X
Differential Gain		X	X	X
Differential Phase		X	X	X
Chrominance-Luminance Intermodulation		X	X	X

* The desired parameters are selected by the customer from the list of available parameters.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(E) Technical Specifications Packages Video Service
(Cont'd)

	SD Code NC Code	TVC* TQ	Package TV1 TV	TV2 TW
Audio Channel Parameters Associated with Video Service				
Insertion Gain		X	X	X
Amplitude/Frequency Characteristic		X	X	X
Total Harmonic Distortion & Noise		X	X	X
Maximum Steady-State Test Levels		X	X	X
Gain Differential Between Channels		X	X	
Phase Differential Between Channels		X	X	
Crosstalk		X	X	X
Audio-To-Video Time Differential		X	X	X

The technical specifications are described in
Technical Reference TR-NPL-000338.

- * The desired parameters are selected by the customer from the list of
available parameters.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(F) Technical Specifications Packages Digital Data Service

SD Code NC Code	Package			
	D1 XA	D2 XB	D3 XG	D4 XH
Parameter				
Error-Free Sounds	X	X	X	X
Optional Features and Functions				
Central Office Bridging Capability	X	X	X	X
PPSN Interface Transfer Arrangement	X	X	X	X
Transfer Arrangement	X	X	X	X

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds (if provided through a Digital Data hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Voltages which are compatible with Digital Data Service are delineated in Technical Reference TR-NPL-000341.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.1 Network Channel (NC) Codes (Cont'd)

(G) Technical Specifications Packages High Capacity Service

SD Code NC Code	Package					
	HCO HS	HC1 HC	HC1C HD	HC2 HE	HC3 HF	HC4 HG
Parameters						
Error-Free Seconds		X				
Optional Features and Functions						
Automatic Loop Transfer		X				
Central Office Multiplexing:						
DS4 to DS1						X
DS3 to DS1					X	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice		X				
DS1 to DSO		X				
DSO to Subrate*	X					
Transfer Arrangement		X				

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous 24 hours period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411.

* Available only on a channel of 1.544 Mbps facility to a Telephone Company hub.

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ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes

The electrical interface with the Telephone Company for Special Access Services, is defined by an interface code. There are interface codes for both the customer designated premises and the point of termination. Three examples of NCI codes are found in 15.2 preceding.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(A) Parameter Codes and Options

Parameter

Code	Option	Definition
AB -		accepts 20 Hz ringing signal at customer's point of termination
AC -		accepts 20 Hz ringing signal at customer's end user's point of termination
AH -		analog high capacity interface
-	B	60 kHz to 108 kHz (12 channels)
-	C	312 kHz to 552 kHz (60 channels)
-	D	564 kHz to 3084 kHz (600 channels)
CT -		Centrex Tie Trunk Termination
DA -		data stream in VF frequency band at customer's end user's point of termination
DB -		data stream in VF frequency band at customer's point of termination
-	10	VF for TG1 and TG2
-	43	VF for 43 Telegraph Carrier type signals, TG1 and TG2
DC -		direct current or voltage
-	1	monitoring interface with series RC combination (McCulloh format)
-	2	Telephone Company energized alarm channel
-	3	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)
DD -		DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination
DE -		DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's point of termination

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(A) Parameter Codes and Options (Cont'd)

Parameter (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DS -		digital hierarchy interface
-	15	1.544 Mbps (DS1) format per PUB 41451 plus D4
-	15E	8-bit PCM encoded in one 64 kbps of the DS1 signal
-	15F	8-bit PCM encoded in two 64 kbps of the DS1 signal
-	15G	8-bit PCM encoded in three 64 kbps of the DS1 signal
-	15H	14/11-bit PCM encoded in six 64 kbps of the DS1 signal
-	15J	1.544 Mbps format per PUB 41451
-	15K	1.544 Mbps format per PUB 41451 plus extended framing format
-	15L	1.544 Mbps (DS1) with SF signaling
-	27	274.176 Mbps (DS4)
-	27L	274.176 Mbps (DS4) with SF signaling
-	31	3.152 Mbps (DS1C)
-	31L	3.152 Mbps (DS1C) with SF signaling
-	44	44.736 Mbps (DS3)
-	44L	44.736 Mbps (DS3) with SF signaling
-	63	6.312 Mbps (DS2)
-	63L	6.312 Mbps (DS2) with SF signaling
DU -		digital access interface
-	24	2.4 kbps
-	48	4.8 kbps
-	56	56.0 kbps
-	96	9.6 kbps
-	A	1.544 Mbps format per PUB 41451
-	B	1.544 Mbps format per PUB 41451 plus D4
-	C	1.544 Mbps format per PUB 41451 plus extended framing format
DX -		duplex signaling interface to customer's point of termination
DY -		duplex signaling interface at customer's end user's point of termination

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(A) Parameter Codes and Options (Cont'd)

Parameter (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
EA -	E	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EA -	M	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EB -	E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EB -	M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EC -	.	Type III E&M signaling at customer POT
EX -	A	tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions.
EX -	B	tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions.
GO -		ground start loop signaling - open end function by customer or customer's end user
GS -		ground start loop signaling - closed end function by customer or customer's end user
IA -		E.I.A. (25 pin RS-232)
LA -		end user loop start loop signaling - Type A OPS registered port open end
LB -		end user loop start loop signaling - Type B OPS registered port open end
LC -		end user loop start loop signaling - Type C OPS registered port open end
LO -		loop start loop signaling - open end function by customer or customer's end user
LR -		20 Hz automatic ringdown interface at customer with Telephone Company provided PLAR
LS -		loop start loop signaling - closed end function by customer or customer's end user
NO -		no signaling interface, transmission only

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(A) Parameter Codes and Options (Cont'd)

Parameter (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
PG -		program transmission - no dc signaling
-	1	nominal frequency from 50 to 15000 Hz
-	3	nominal frequency from 200 to 3500 Hz
-	5	nominal frequency from 100 to 5000 Hz
-	8	nominal frequency from 50 to 8000 Hz
PR -		protective relaying*
RV -	0	reverse battery signaling, one way operation, originate by customer
-	T	reverse battery signaling, one way operation, terminate function by customer or customer's end user
SF -		single frequency signaling with VF band at either customer POT or customer's end user POT
TF -		telephotograph interface
TT -		telegraph/teletypewriter interface at either customer POT or customer's end user POT
-	2	20.0 milliamperes
-	3	3.0 milliamperes
-	6	62.5 milliamperes
TV -		television interface
-	1	combined (diplexed) video and one audio signal
-	2	combined (diplexed) video and two audio signals
-	5	video plus one (or two) audio 5 kHz signal(s) or one (or two) two wire
-	15	video plus one (or two) audio 15 kHz signal(s)

* Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(B) Impedance

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

Value (ohms)	Code(s)
110	0
150	1
600	2
900	3+
135	5
75	6
124	7
Variable	8
100	9

- + For those interface codes with a 4-wire transmission path at the customer designated POT, rather than a standard 900 ohm impedance the code (3) denotes a customer provided transmission equipment termination. Such terminations were provided to customers in accordance with the F.C.C. Docket No. 20099 Settlement Agreement.

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ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces

The following tables show the Network Channel Interface codes (NCIs) which are compatible:

(1) Metallic

Compatible CIs

2DC8-1 2DC8-2

2DC8-3 2DC8-3

4DS8- 2DC8-1

4DS8- 2DC8-2

(2) Telegraph Grade

Compatible CIs

2DB2-10 10IA8
 2TT2-2
 4TT2-2

2DB2-43* 10IA8
 2TT2-2
 2TT2-6
 4TT2-2

2TT2-2 2TT2-2

2TT2-3 2TT2-2
 4TT2-2

2TT2-6 2TT2-6
 4TT2-6

Compatible CIs

4DB2-10 10IA8
 2TT2-2
 4TT2-2

4DB2-43* 10IA8
 2TT2-6
 4TT2-2
 4TT2-2

4DS8- 10IA8
 2TT2-2
 2TT2-6
 4TT2-2
 4TT2-6

4TT2-2 4TT2-2

4TT2-6 2TT2-6

* Supplemental Channel Assignment information required.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
2AB2	2AC2	2DB2	2DA2	2LR2	2LR2
2AB3	2AC2	2DB3	2DA2	2LR3	2LR2
2CT3	2DY2	2DX3	2LA2	2LS	2GS
	4DS8		2LB2		2LS
	4DX2		2LC2		4GS
	4DX3		2LO3		4LS
	4DY2		2LS2		
	4EA2-E		2LS3	2LS2	2LA2
	4EA2-M				2LB2
	4SF2	2GO2	2GS2		2LC2
	4SF3		2GS3		
	6DX2			2LS3	2LA2
	6DY2	2GO3	2GS2		2LB2
	6DY3		2GS3		2LC2
	6EA2-E				
	6EA2-M	2GS	2GS	2NO2	2DA2
	6EB2-E		2LS		2NO2
	6EB2-M		4GS		
	6EB3-E		4LS	2NO3	2NO2
	8EB2-E				2PR2
	8EB2-M	2LO2	2LS2		
	8EC2		2LS3	2TF3	2TF2
	9DY2				
	9DY3	2LO3	2LS2		
	9EA2		2LS3		
	9EA3				

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AB2	2AC2 4AB2 4AC2 4SF2				
4AB3	2AC2 4AC2 4SF2				
4AC2	2AC2 4AC2				
		4DS8-	2AC2 2DA2 2DY2 2GO2 2GO3 2GS2 2GS3 2LA2 2LB2 2LC2 2LO2 2LO3 2LR2 2LS2 2LS3 2NO2 2PR2 2RV2-T 2TF2 4AC2 4DA2 4DE2 4DX2 4DX3 4DY2 4EA2-E 4EA2-M	4DS8-	4DG2 4LR2 4LS2 4NO2 4PR2 4RV2-T 4SF2 4SF3 4TF2 6DA2 6DY2 6DY3 6EA2-E 6EA2-M 6EB2-E 6EB2-M 6GS2 6LS2 8EB2-E 8EB2-M 9DY2 9DY3 9EA2 9EA3
4DA2	4DA2				
4DB2	2DA2 2NO2 2PR2 4DA2 4DB2 4NO2 4PR2 6DA2				
4DD3	2DE2 4DE2				

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DX2	2DY2	4DX2	8EB2-E	4DX3	6DY2
	2LA2		8EB2-M		6DY3
	2LB2		9DY2		6EA2-E
	2LC2		9DY3		6EA2-M
	2LO3		9EA2		6EB2-E
	2LS2		9EA3		6EB2-M
	2LS3				6LS2
	2RV2-T	4DX3	2DY2		8EB2-E
	4DX2		2LA2		8EB2-M
	4DY2		2LB2		9DY2
	4EA2-E		2LC2		9DY3
	4EA2-M		2LO3		9EA2
	4LS2		2LS2		9EA3
	4RV2-T		2LS3		
	4SF2		2RV2-T	4DY2	2DY2
	4SF3		4DX2		4DY2
	6DY2		4DX3		
	6DY3		4DY2		
	6EA2-E		4EA2-E		
	6EA2-M		4EA2-M		
	6EB2-E		4LS2		
	6EB2-M		4RV2-T		
	6LS2		4SF2		
			4SF3		

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4EA2-E	2DY2	4EA3-E	2DY2	4G02	2G02
	4DY2		4DY2		2G03
	4EA2-E		4EA2-E		2GS2
	4EA2-M		4EA2-M		2GS3
	4SF2		4SF2		4GS2
	6DY2		6DY2		4SF2
	6DY3		6DY3		6GS2
	6EB2-E		6EA2-E	4G03	
	6EB2-M		6EA2-M		2G02
	8EB2-E		6EB2-E		2GS2
	8EB2-M		6EB2-M		2GS3
	9DY2		8EB2-E		4GS2
	9DY3		8EB2-M		4SF2
			9DY2		6GS2
4EA2-M	2DY2		9DY3	4GS	
	4DY2		9EA2		
	4EA2-M		9EA3		2GS
	4SF2				2LS
	6DY2				4GS
	6DY3				4LS
	6EB2-E				
	6EB2-M				
	8EB2-E				
	8EB2-M				
	9DY2				
	9DY3				

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4LO2	2LS2	4LS3	2LA2	4SF2	2LO3
	2LS3		2LB2		2LR2
	4LS2		2LC2		2LS2
	4SF2		2LO2		2LS3
	6LS2		2LO3		2RV2-T
			4SF2		4AC2
4LO3	2LS2				4DY2
	2LS3	4NO2	2DA2		4LS2
	4LS2		2DE2		4RV2-T
	4SF2		2NO2		4SF2
	6LS2		4DA2		6DY2
			4DE2		6DY3
4LR2	2LR2		4NO2		6GS2
	4LR2		6DA2		9DY2
	4SF2				9DY3
		4RV2-0	2RV2-T		
4LR3	2LR2		4RV2-T	4SF3	2DY2
	4LR2		4SF2		2GO3
	4SF2				2GS2
					2GS3
4LS	2GS	4SF2	2AC2		2LA2
	2LS		2DY2		2LB2
	4GS		2GS2		2LC2
	4LS		2GS3		2LO3
			2LA2		2LR2
4LS2	2LA2		2LB2		
	2LB2		2LC2		
	2LC2				
	2LO2				
	2LO3				

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4SF3	2LS2	6DA	4DA2	6DY3	2DY2
	2LS3		6DA2		4DY2
	2RV2-T				6DY2
	4DY2	6DX2	2DY2		6DY3
	4EA2-E		4DY2		
	4EA2-M		4EA2-E	6EA2-E	2AC2
	4GS2				
	4LR2		4EA2-M		2DY2
	4LS2		4SF2		2LA2
	4RV2-T		6DY2		2LB2
	4SF2		6DY3		2LC2
	4SF3		6EA2-E		2LO3
	6DY2		6EA2-M		2LS2
	6DY3		6EB2-E		2LS3
	6EB2-E		6EB2-M		2RV2-T
	6EB2-M		8EB2-E		4AC2
	6GS2		8EB2-M		4DY2
	6LS2		9DY2		4EA2-E
	9DY2		9DY3		4EA2-M
	9DY3		9EA2		4LS2
	9EA2		9EA3		4RV2-T
	9EA3				4SF2
		6DY2	2DY2		4SF3
4TF2	2TF2		4DY2		6DY2
	4TF2		6DY2		6DY3
					6EA2-E
					6EA2-M

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6EA2-E	6EB2-E	6EA2-M	6DY2	6EB3-E	2DY2
	6EB2-M		6DY3		4DY2
	6LS2		6EA2-M		4EA2-E
	8EB2-E		6EB2-E		4EA2-M
	8EB2-M		6EB2-M		4SF2
	9DY2		6LS2		6DY2
	9DY3		8EB2-E		6DY3
			8EB2-M		6EA2-E
6EA2-M	2AC2		9DY2		6EA2-M
	2DY2		9DY3		8EB2-E
	2LA2				8EB2-M
	2LB2	6EB2-E	2DY2		9DY2
	2LC2		4DY2		9DY3
	2LO3		4SF2		9EA2
	2LS2		6DY2		9EA3
	2LS3		6DY3		
	2RV2-T		6EB2-E	6EX2-A	2GS2
	4AC2		6EB2-M		2GS3
	4DY2		9DY2		2LS2
	4EA2-E		9DY3		2LS3
	4EA2-M				4GS2
	4LS2	6EB2-M	2DY2		4LS2
	4RV2-T		4DY2		4SF2
	4SF2		4SF2		6GS2
	4SF3		6DY2		6LS2
			6DY3		
			6EB2-M		
			9DY2		
			9DY3		

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6EX2-B	2GO3	8EB2-E	2AC2	8EB2-M	2AC2
	2LA2		2DY2		2DY2
	2LB2		2LA2		2LA2
	2LC2		2LB2		2LB2
	2LO2		2LC2		2LC2
	2LO3		2LO3		2LO3
	2LR2		2LS2		2LS2
	4LR2		2LS3		2LS3
	4SF2		2RV2-T		2RV2-T
			4AC2		4AC2
6GO2	2GO2		4DY2		4DY2
	2GS2		4LS2		4LS2
	2GS3		4RV2-T		4RV2-T
	4GS2		4SF2		4SF2
	4SF2		4SF3		4SF3
	6GS2		6DY2		6DY2
			6DY3		6DY3
6LO2	2LS2		6EB2-E		6EB2-E
	2LS3		6EB2-M		6EB2-M
	4LS2		6LS2		6LS2
	4SF2		8EB2-E		8EB2-M
	6LS2		8EB2-M		9DY2
6LS2			9DY2		9DY3
	2LA2		9DY3		
	2LB2				
	2LC2				
	2LO2				
	2LO3				
	4SF2				

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
8EC2	2DY2	9DY2	2DY2	9EA3	2DY2
	4DY2		4DY2		4DY2
	4EA2-E		6DY2		4EA2-E
	4EA2-M		6DY3		4EA2-M
	4SF2		9DY2		6DY2
	6DY2				6DY3
	6DY3	9DY3	2DY2		6EA2-E
	6EA2-E		4DY2		6EA2-M
	6EA2-M		6DY2		6EB2-E
	6EB2-E		6DY3		6EB2-M
	6EB2-M		9DY2		8EB2-E
	8EB2-E		9DY3		8EB2-M
	8EB2-M				9DY2
	9DY2	9EA2	2DY2		9DY3
	9DY3		4DY2		9EA3
	9EA2		4EA2-E		
	9EA3		4EA2-M		
			6DY2		
			6DY3		
			6EA2-E		
			6EA2-M		
			6EB2-E		
			6EB2-M		
			8EB2-E		
			8EB2-M		
			9DY2		
			9DY3		
			9EA2		
			9EA3		

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(4) Program Audio

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
2PG2-1	2PG1-1 2PG2-1	4DS8-15E	2PG1-3 2PG2-3
2PG2-3	2PG1-3 2PG2-3	4DS8-15F	2PG1-5 2PG2-5
2PG2-5	2PG1-5 2PG2-5	4DS8-15G	2PG1-8 2PG2-8
2PG2-8	2PG1-8 2PG2-8	4DA8-15H	2PG1-1 2PG2-1

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(5) Video

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
2TV6-1	4TV6-15 4TV7-15	4TV7-5	4TV6-5 4TV7-5
2TV6-2	6TV6-15 6TV7-15	4TV7-15	4TV6-15 4TV7-15
2TV7-1	4TV6-15 4TV7-15	6TV6-5	6TV6-5 6TV7-5
2TV7-2	6TV6-15 6TV7-15	6TV6-15	6TV6-15 6TV7-15
4TV6-5	4TV6-5 4TV7-5	6TV7-5	6TV6-5 6TV7-5
4TV6-15	4TV6-15 4TV7-15	6TV7-15	6TV6-15 6TV7-15

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(6) Digital Data

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS8-15	4DS8-15+	4DU5-24	4DU5-24	6DU5-24	6DU5-24
	4DU5-24				
	4DU5-48	4DU5-48	4DU5-48	6DU5-48	6DU5-48
	4DU5-56				
	4DU5-96	4DU5-96	4DU5-96	6DU5-56	6DU5-56
	6DU5-24				
	6DU5-48	4DU5-56	4DU5-56	6DU5-96	6DU5-96
	6DU5-96				

+ Available only as a cross connect of two digital channels at appropriate digital speeds at a Telephone Company hub.

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15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.2 Special Access Service (Cont'd)

15.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(7) High Capacity

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DSO-63	4DSO-63 4DU8-A,B or C 6DU8-A,B or C	4DS8-15J 6DU8-A	4DU8-A
4DS6-27	4DS6-27 4DU8-A,B or C 6DU8-A,B or C	4DS8-15K 6DU8-B 6DU8-C	4DU8-B 4DU8-C
4DS6-44	4DS6-44 4DU8-A,B or C 6DU8-A,B or C	4DS8-31	4DS8-31 4DU8-A,B or C 6DU8-A,B or C
4DS8-15	4DS8-15+ 4DU8-B 6DU8-8	4DU8-A,B or C	4DU8-A,B or C

+ Available only as a cross connect of two individual channels of 1.544 Mbps facilities at a Telephone Company hub.

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ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.3 Directory Access Service

15.3.1 Interface Group and Premise Interface Codes

When Directory Access Service is combined with Feature Group B, C or D Switched Access Service, the Premises Interface Code for the combination will be the available Premises Interface Code provided for the Feature Group B, C or D Switched Access Service ordered by the customer. Premises Interface Codes are described in 15.1.1(G) preceding.

When Directory Access Service is provided as a separate trunk group (not in combination with Switched Access Service) Interface Groups 2 through 10 as set forth in 15.1.1 preceding are available. Only the following Premises Interface codes are available when Directory Access Service is provided as a separate trunk group:

4DS9-15	6EA2-E	4RV2-O
4DS9-31	6EA2-M	4AH5-B
4DSO-63	4SF3	4AH6-C
4DS6-44		4AH6-D
4DS6-27		

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

15. Access Service Interfaces and Transmission Specifications (Cont'd)

15.3 Directory Access Service (Cont'd)

15.3.2 Standard Transmission Specifications

Following is a matrix illustrating the transmission specifications available with Directory Access Service. Descriptions of the Standard Transmission Specifications, Type A and B, are set forth respectively in 15.1.2(E) and (F) preceding.

Directory Access Service Provided in <u>Combination with Switched Access Service</u>	Transmission Specifications	
	<u>Type A</u>	<u>Type B</u>
- Feature Group B (Interface Groups 2 through 10)		X
- Feature Group C		X
- Feature Group D	X	
Directory Access Service Not Combined with Switched Access Service		
- Routed Direct to DA location (Interface Groups 2 through 10)		X
- Routed via an access tandem (Interface Groups 2 through 10)	X	

Effective Date: _____

Authorized by PSCW Order _____ Letter _____

ACCESS SERVICE

16. Primary Exchange Carrier and Secondary Exchange Carrier Billing Arrangements

16.1 General

This section sets forth information concerning the provision of Access Services by more than one exchange telephone company when providing Interlata Feature Group A in an Extended Area Service environment or Feature Group B in an Access Tandem environment, and the Primary Exchange Carriers do not provide service under this access service tariff. It is an adjunct to other sections of this tariff such as Ordering (Section 5) and Switched Access Service (Section 6).

16.2 Billing of Interlata Switched Access Service Feature Group A in Extended Area Service Environments

(A) Where the customer is provided Switched Access Service Feature Group A, in an Extended Area Service environment as set forth in 6.4.1(C)(7) preceding, the Telephone Company may apply additional Switched Access Service rates. The application of such additional charges depends upon whether or not there exists a revenue sharing arrangement between the Primary Exchange Carrier (PEC) and the Secondary Exchange Carrier (SEC) as set forth in 2.4.7(A)(1)(b) preceding. Listed below is information concerning which SECs bill the additional Switched Access service charges and which do not. The Extended Area Service areas are as set forth in the general and/or local exchange service tariffs of the Telephone Company.

(B) PEC - General Telephone Co. of Wisconsin

SECs Applying Add'l. Chgs.

Lemonweir Valley Tel. Co.
Wittenberg Tel. Co.

PEC - Dickeyville Tel Corp

SECs Applying Add'l Chgs.

Cuba City Telephone Exchange
Farmers Telephone Co.
Platteville Telephone Co.

SECs Not Applying Add'l. Chgs.

Badger State Tel. Co.
Central State Tel. Co.
Century Tel. of Wisc.
Citizens Tel. Coop. Inc.
Greenwood Tel. Co.
Midway Tel. Co.
The Mosinee Tel. Co.
Sharon Tel. Co.
Spring Valley Tel.
Wittenberg Tel. Co.

(N)

SECs Not Applying Add'l Chgs.

Effective Date: April 14, 1992

Authorized by PSCW Order _____ Letter April 14, 1992

ACCESS SERVICE

16. Primary Exchange Carrier and Secondary Exchange Carrier Billing Arrangements
(Cont'd)

16.2 Billing of Interlata Switched Access Service Feature Group A in
Extended Area Service Environments (Cont'd)

(B) (Cont'd)

PEC - Wisconsin Tel. Co.

SECs Applying Add'l. Chgs.

Lakefield Tel. Co.
Madeline Island Tel. Co.
The Peoples Tel-Randolph

SECs Not Applying Add'l. Chgs.

Amherst Tel. Co.
Bayland Tel. Inc.
Black Earth Tel. Co.
Bonduel Tel. Co.
Burlington, Brighton &
Wheatland Tel. Co.
Cencom of Wisconsin, Inc.
Dodge County Tel. Co.
Fennimore Tel. Co.
Fairwater-Brandon-Alto Tel. Co.
Footville Tel. Co.
Forestville Tel. Co.
Larsen-Readfield Tel. Co.
Marquette Adams Tel. Coop.
Mid-Plains Tel. Inc.
Mosel & Centerville Tel. Co
Mount Horeb Tel.
Mt. Vernon Tel. Co.
North-West Tel. Co.
Northeast Tel. Co.
Peoples Tel. Co. (Randolph)
Rock River Tel. Co.
Scandinavia Tel. Co.
Solon Springs Tel. Co.
State Long Distance Co.
Stockbridge-Sherwood Tel. Co.
Sullivan Tel. Co.
Universal Tel. Co. of Northern
Wisconsin
Valders Tel. Co.
Waunakee Tel. Co.
Wayside Tel. Co.
West Wisconsin Tel. Corp.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

16. Primary Exchange Carrier and Secondary Exchange Carrier Billing Arrangements
(Cont'd)

16.3 Billing of Switched Access Service Feature Group B in Access Tandem Environments

(A) Where the customer is provided Switched Access Service Feature Group B in an Access Tandem environment as set forth in 6.4.1(C)(8) preceding, the Telephone Company may apply additional Switched Access Service rates. The application of such additional charges depends upon whether or not there exists a revenue sharing arrangement between the Primary Exchange Carrier and the Secondary Exchange Carrier as set forth in 2.4.7(A)(1)(b) preceding. Listed below is information concerning which SECs bill the additional Switched Access Service charges and which do not. The Feature Group B Access Tandem serving areas are as set forth in the exchangerouting guide of the Telephone Company.

(B) PEC - General Telephone Co. of Wisconsin

SECs Applying Add'l. Chgs.

UTELCO, Inc.

SECs Not Applying Add'l. Chgs.

Badger State Tel. Co.
Central State Tel. Co.
Citizens Tel. Coop. Inc.
Greenwood Tel. Co.
Indianhead Tel. Co.
Midway Tel. Co.
Wittenberg Tel. Co.

PEC - Wisconsin Tel. Co.

SECs Applying Add'l. Chgs.

Century Tel. of Wisc.

SECs Not Applying Add'l. Chgs.

Amherst Tel. Co.
Bergen Tel. Co.
Black Earth Tel. Co.
Bondeul Tel. Co.
Burlington, Brighton &
Wheatland Tel. Co.
Cencom of Wisconsin Inc.
Dodge Co. Tel. Co.
Fennimore Tel. Co.
Fairwater-Brandon-Alto Tel. Co.
Footville Tel. Co.
Forestville Tel. Co.
Indianhead Tel. Co.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ACCESS SERVICE

16. Primary Exchange Carrier and Secondary Exchange Carrier Billing Arrangements
(Cont'd)

16.3 Billing of Switched Access Service Feature Group B in Access
Tandem Environments (Cont'd)

(B) (Cont'd)

PEC - Wisconsin Tel. Co. (Cont'd)

SECs Applying Add'l Chgs.

SECs Not Applying Add'l Chgs.

Larsen-Readfield Tel. Co.
Marquette Adams Tel. Coop.
Mid-Plains Tel. Inc.
Monroe County Tel.
Mosel & Centerville Tel. Co.
Mount Horeb Tel. Co.
Mt. Vernon Tel. Co.
North-West Tel. Co.
Peoples Tel. Co. (Randolph)
Rock River Tel. Co.
Scandinavia Tel. Co.
Solon Springs Tel. Co.
Sullivan Tel. Co.
Stockbridge & Sherwood Tel. Co.
UTELCO, Inc.
Universal Tel. Co. of Northern
Wisconsin
Valders Tel. Co.
Waunakee Tel. Co.

PEC - Century Tel. of WI., Inc.

SECs Applying Add'l Chgs.

SECs Not Applying Add'l Chgs.

Coon Valley Farmers Tel. Co. Inc.

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ACCESS SERVICE

Telephone Company elects to treat WATS access lines as: Switched_____ Special_____

Telephone Company elects to offer FGA, in the terminating direction, to valid
NNXs in the following calling area:

___ Intraexchange Local Calling Area Only

___ Intraexchange Local Calling Area and its EAS and ECC Calling Areas

___ LATAwide Calling Area

(N)

(N)

17. Rates and Charges

17.1 Common Line Access Service

Tariff
Section

17.1.1 Carrier Common Line Access Service

Rate

Reference

Regulations concerning Carrier Common
Line Access are set forth in Section 3.
preceding.

Premium Access

-	Terminating Per Access Minute	\$.	3.1 &
-	Originating Per Access Minute	\$.	6.4.1(C)(1)

Non Premium Access

-	Terminating Per Access Minute	\$.	3.1 &
-	Originating Per Access Minute	\$.	6.4.1(C)(2)

Effective Date: _____

Authorized by PSCW Order _____ Letter AUG -8 1996

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access Service

	<u>Rate</u>	<u>Tariff Section Reference</u>
17.2.1 <u>Nonrecurring Charges</u>		
(A) <u>Transport - Installation Per Line or Trunk</u>	\$	6.4.1(B)(1)
(B) <u>Directory Access Installation Charge</u>	\$	9.4.1(B)(1)
(C) <u>Interim NXX Translation Per Order Per LATA or Market Area</u>	\$	6.4.1(B)(2)
(D) <u>FGC and FGD Conversion of Multifrequency Address Signaling to SS7 Signaling or SS7 Signaling to Multifrequency Address Signaling</u>		6.4.1(B)(3) (C)
- <u>Per 24 Trunks Converted or Fraction thereof on a Per Order Basis</u>	\$	(C)

17.2.2 Transport

Premium Access

- Transport Termination
Per Access Minute 6.1.3(A)

Local Transport

- Transport Facility
Per Access Minute Per Mile 6.1.3(A)

Local Transport

Non Premium Access

- Transport Termination
Per Access Minute 6.1.3(A)

Local Transport

- Transport Facility
Per Access Minute Per Mile 6.1.3(A)

Local Transport

Network Blocking Per Blocked Call

Applies to FGD only 6.8.6

Effective Date: January 3, 1994

Authorized by PSCW Order _____ Letter January 3, 1994

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access Service (Cont'd)

<u>Rate</u>	<u>Non- Recurring Charge</u>	<u>Tariff Section Reference</u>
-------------	--------------------------------------	---

17.2.2 Transport (Cont'd)

17.2.2 (A) Common Channel Signaling Network
Connection

(C)

(1) Signaling Network
Access Link*

6.10.4

- Signaling Mileage
Facility per mile \$
- Signaling Mileage
Termination
per Termination \$
- Signaling Entrance
Facility
per Facility \$ \$

(2) STP Port*

- per port \$

(C)

(B) 800 Data Base Access
Service Queries*

6.1.3(C)(2) (C)

Per Query

- Basic \$
- Vertical Feature \$

(C)

(D)
(D)

Effective Date: January 3, 1994

Authorized by PSCW Order _____ Letter January 3, 1994

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.3 End Office

Rate

Tariff
Section
Reference

(A) Local Switching

Premium

Local Switching 1
Per Access Minute

6.1.3(B)(1)

Feature Groups A & B
(except:

- (1) Feature Group B utilized for the provision of MTS/WATS service,
- (2) Feature Groups A & B when utilized for the provision of terminating inward WATS and WATS-type services at an equal access WATS Serving Office).

Local Switching 2
Per Access Minute

6.1.3(B)(1)

Feature Groups C & D
(including:

- (1) Feature Group B when utilized for the provision of MTS/WATS service,
- (2) Feature Groups A and B when utilized for the provision of terminating inward WATS and WATS-type services at an equal access WATS Serving Office).

Non-Premium Per Access Minute

6.1.3(B)(1)

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

Name of Utility
INTRASTATE ACCESS CHARGE TARIFF

INTRASTATE ACCESS TARIFF NO. 1
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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.3 End Office (Cont'd)

Rate

Tariff
Section
Reference

(B) Information Surcharge

Premium Per 100 Access Minutes

6.1.3(B)(2)

Non-Premium Per 100 Access Minutes

6.1.3(B)(2)

17.2.4 Reserved For Future Use.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

Name of Utility
INTRASTATE ACCESS CHARGE TARIFF

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.5 Reserved for Future Use.

Rate

Tariff
Section
Reference

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.2 Switched Access Service (Cont'd)

17.2.6 Assumed Minutes of Use

	Assumed Minutes Per Month	Tariff Section Reference
(A) Feature Group A, Two Way Calling (1510 Originating, 2685 Terminating)		6.5.4
(B) Feature Group A, Originating Only		6.5.4
(C) Feature Group A, Terminating Only		6.5.4
(D) Feature Group B, Two Way Calling (3132 Originating, 5568 Terminating)		6.6.4
(E) Feature Group B, Originating Only		6.6.4
(F) Feature Group B, Terminating Only		6.6.4

Effective Date: January 1, 1990

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Name of Utility _____
INTRASTATE ACCESS CHARGE TARIFF

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service

17.3.1 Surcharge for Special Access Service

<u>Monthly</u> <u>Rate</u>	<u>Tariff</u> <u>Section</u> <u>Reference</u>
-------------------------------	---

- Per Voice Grade Equivalent

7.3

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.2 Metallic Service

Regulations concerning Metallic Service are set forth
in 7.4 preceding.

<u>Monthly</u>	<u>Nonrecurring</u>
<u>Rate</u>	<u>Charge</u>

(A) Channel Termination Per Termination

(B) Channel Mileage

(1) Channel Mileage Facility
Per Mile

(2) Channel Mileage Termination
Per Termination

(C) Optional Features and Functions

(1) Bridging

(a) Three Premises Bridging
Per Port

(b) Series Bridging
Per Port

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.3 Telegraph Grade Service

Regulations concerning Telegraph Grade Service are set forth in 7.5 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Channel Termination Per Termination		
- Two-Wire		
- Four-Wire		
(B) Channel Mileage		
(1) Channel Mileage Facility Per Mile		
(2) Channel Mileage Termination Per Termination		
(C) Optional Features and Functions		
(1) Telegraph Bridging Per Port		
- Two-Wire		
- Four-Wire		

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.4 Voice Grade Service

Regulations concerning Voice Grade Service are set forth
in 7.6 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Channel Termination Per Termination		
- Two-Wire		
- Four-Wire		
- Intralata FX CO Connection Charge (per line or per order)		(N) (N)
(B) Channel Mileage		
(1) Channel Mileage Facility Per Mile		
(2) Channel Mileage Termination Per Termination		
(C) Optional Features and Functions		
(1) Bridging		
(a) <u>Voice Bridging</u> Per Port		
- Two-Wire		
- Four-Wire		
(b) <u>Data Bridging</u> Per Port		
- Two-Wire		
- Four-Wire		

Effective Date: _____

Authorized by PSCW Order _____ Letter 07-24-91

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.4 Voice Grade Service (Cont'd)

Regulations concerning Voice Grade Service are set forth in 7.6 preceding.

Monthly
Rate

(C) Optional Features and Functions (Cont'd)

(1) Bridging (Cont'd)

(c) Telephoto Bridging Per Port

- Two-Wire
- Four-Wire

(d) DATAPHONE Select-A-Station Bridging

Sequential Arrangement, Ports
Per channel connected

- Two-Wire
- Four-Wire

Addressable Arrangement, Ports
Per channel connected

- Two-Wire
- Four-Wire

(e) Telemetry and Alarm Bridging

Active Bridging Channel Connections
Per channel connected

- Split Band
- Summation

Passive Bridging Channel Connections
Per channel connected

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.4 Voice Grade Service (Cont'd)

Regulations concerning Voice Grade Service are set forth in 7.6 preceding.

Monthly <u>Rate</u>	Nonrecurring <u>Charge</u>
------------------------	-------------------------------

(C) Optional Features and Functions (Cont'd)

(2) Conditioning Per Termination

- C Type
- Data Capability
- Telephoto Capability

(3) Improved Return Loss for
Effective Two-Wire or
Four-Wire Transmission
Per Termination

- Two-Wire
- Four-Wire

(4) Customer Specified Receive
Level Per Two-Wire Termination

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.4 Voice Grade Service (Cont'd)

Regulations concerning Voice Grade Service are set forth in 7.6 preceding.

Monthly
Rate

(C) Optional Features and Functions (Cont'd)

- (5) Multiplexing Per Arrangement
Voice to Telegraph Grade
- (6) Signaling Capability
Per termination
- (7) Selective Signaling Arrangement
Per arrangement
- (8) Transfer Arrangement (key activated*
or dial up**)
 - Per four port arrangement including
control channel termination***
 - Per five port arrangement including
control channel termination***
- (9) Public Packet Switching Network (PPSN)
Interface Arrangement Per arrangement

ICB rates and charges are filed in 17.3.9 following.

- * The key activated control channel is rated as a Metallic Channel Termination and Channel Mileage, if applicable.
- ** The Dial-Up option requires the customer to purchase the Controller Arrangement from 13.3.4 preceding.
- *** An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to the customer designated premises. Additional channel mileage charges will also apply when the transfer arrangement is not located in the customer designated premises serving wire center.

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Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.5 Program Audio Service

Regulations concerning Program Audio Service are set forth
in 7.7 preceding.

	Monthly <u>Rate</u>	Daily* <u>Rate</u>	Nonrecurring Charge	
			<u>Monthly</u>	<u>Daily</u>
(A) Channel Termination Per Termination				
- 200 to 3500 Hz				
- 100 to 5000 Hz				
- 50 to 8000 Hz				
- 50 to 15000 Hz				
(B) Channel Mileage				
(1) Channel Mileage Facility Per Mile			<u>Monthly Rate</u>	<u>Daily* Rate</u>
- 200 to 3500 Hz				
- 100 to 5000 Hz				
- 50 to 8000 Hz				
- 50 to 15000 Hz				
(2) Channel Mileage Termination Per Termination				
- 200 to 3500 Hz				
- 100 to 5000 Hz				
- 50 to 8000 Hz				
- 50 to 15000 Hz				

* Daily Rates will be topped and maximum rates derived as set forth in
7.2.2(B) preceding.

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Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.5 Program Audio Service (Cont'd)

Regulations concerning Program Audio Service are set forth
in 7.7 preceding.

Monthly <u>Rate</u>	Daily* <u>Rate</u>
------------------------	-----------------------

(C) Optional Features and Functions

(1) Bridging, Distribution
Amplifier Per Port

(2) Gain Conditioning
per service

* Daily Rates will be topped and maximum rates derived as set forth in
7.2.2(B) preceding.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.6 Video Service

Regulations concerning Video Service are set forth in 7.8 preceding.

	Monthly <u>Rate</u>	Daily* <u>Rate</u>	Nonrecurring Charge	
			<u>Monthly</u>	<u>Daily</u>
(A) Channel Termination Per Termination				
- TV-1 or 2				
- 4TV-5				
- 6TV-5				
- TV-15				
(B) Channel Mileage				
		Monthly <u>Rate</u>	Daily* <u>Rate</u>	
(1) Channel Mileage Facility Per Mile				
- All				
(2) Channel Mileage Termination Per Termination				
- All				

* Daily Rates will be topped and maximum rates derived as set forth in 7.2.2(B) preceding.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.7 Digital Data Service

Regulations concerning Digital Data Service are set forth
in 7.9 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Channel Termination Per Termination		
- 2.4 kbps		
- 4.8 kbps		
- 9.6 kbps		
- 19.2 kbps		(N)
- 56.0 kbps		
- 64.0 kbps		(N)
(B) Channel Mileage		
(1) Channel Mileage Facility Per Mile		
- 2.4 kbps		
- 4.8 kbps		
- 9.6 kbps		
- 19.2 kbps		(N)
- 56.0 kbps		
- 64.0 kbps		(N)
(2) Channel Mileage Termination Per Termination		
- 2.4 kbps		
- 4.8 kbps		
- 9.6 kbps		
- 19.2 kbps		(N)
- 56.0 kbps		
- 64.0 kbps		(N)

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.7 Digital Data Service (Cont'd)

Regulations concerning Digital Data Service are set forth in 7.9 preceding.

Monthly
Rate

(C) Optional Features and Functions

- (1) Bridging Per Port
- (2) Loop Transfer Arrangement
Per four port arrangement*
Key activated** or Dial-Up***
- (3) Public Packet Switching
Network Interface Arrangement
 - Per 9.6 kbps arrangement
 - Per 56.0 kbps arrangement

(D) Channel Service Unit Per Termination****

- 2.4 kbps
- 4.8 kbps
- 9.6 kbps
- 56.0 kbps

ICB Rates and Charges are filed in 17.3.9 following.

* An additional Channel Termination charge will apply whenever a spare channel is configured as a leg to the customer designated premises. Additional Channel Mileage charges will also apply when the transfer arrangement is not located in the customer designated premises serving wire center.

** The key activated control channel is rated as a Metallic Channel Termination and Channel Mileage, if applicable.

*** The Dial-Up option requires the customer to purchase the Controller Arrangement from 13.3.4 preceding.

**** Channel Service Units will only be provided under tariff if they existed in the Telephone Company's inventory as of November 18, 1983.

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Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.8 High Capacity Service

Regulations concerning High Capacity Service are set forth
in 7.10 preceding.

	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
(A) Channel Termination Per Termination		
- 1.544 Mbps		
- 3.152 Mbps		
- 6.312 Mbps		
- 44.736 Mbps		
- 274.176 Mbps		
- Capacity of 1 DS3 44.736 Mbps Interface		
- per DS3 Channel Installed		
- Capacity of 3 DS3 44.736 Mbps Interface		
- per DS3 Channel Installed		
- Capacity of 6 DS3 44.736 Mbps Interface		
- per DS3 Channel Installed		
- Capacity of 12 DS3 44.736 Mbps Interface		
- per DS3 Channel Installed		

(N)

(N)

(B) Channel Mileage

(1) Channel Mileage Facility
Per Mile

- 64 kbps*
- 1.544 Mbps
- 3.152 Mbps
- 6.312 Mbps
- 44.736 Mbps
- 274.176 Mbps

ICB Rates and Charges are filed in 17.3.9 following.

* Applies to through connections of 2.4, 4.8, 9.6, 56.0 and 64 kbps.

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.8 High Capacity Service (Cont'd)

Regulations concerning High Capacity Service are set forth
in 7.10 preceding.

Monthly
Rate

(D) Optional Features and Functions (Cont'd)

(T)

(2) Automatic Loop Transfer
Per arrangement*

(3) Transfer Arrangement (key activated**
or Dial-Up***)
Per four port arrangement including
control channel termination****

(E) Network Channel Terminating
Equipment (NCTE) Per termination#

(T)

- 1.544 Mbps
- Automatic Loop Transfer

* An additional Channel Termination charge will apply whenever the spare
line is provided as a leg to the customer designated premises.

** The key activated control channel is rated as a Metallic Channel
Termination and Channel Mileage, if applicable.

*** The Dial-Up option requires the customer to purchase the Controller
Arrangement from 13.3.4 preceding.

**** An additional Channel Termination charge will apply whenever a spare
channel is configured as a leg to the customer designated premises.
Additional channel mileage charges will also apply when the transfer
arrangement is not located in the customer designated premises serving
wire center.

NCTE will only be provided under tariff if it existed in the Telephone
Company's inventory as of November 18, 1983.

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Authorized by PSCW Order _____ Letter January 3, 1994

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INTRASTATE ACCESS CHARGE TARIFF

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.3 Special Access Service (Cont'd)

17.3.9 Individual Case Filings

Rate and Charges for Special Access Service provided on an individual case basis are filed following.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services

17.4.1 Access Ordering

	<u>Charge</u>	<u>Tariff Section Reference</u>
(A) <u>Access Order Charge</u>		
Per Order		5.4.1
(B) <u>Service Date Change Charge</u>		
A Service Date Change Charge will apply, on a per order per occurrence basis, for each service date changed. The Access Order Charge as specified in 17.4.1(A) preceding does not apply. The applicable charge is:		
Service Date Change Charge, per order		5.4.3
(C) <u>Design Change Charge</u>		
The Design Change Charge will apply, on a per order per occurrence basis, for each order requiring design change. The applicable Charge is:		
Design Change Charge, per order		5.4.3
(D) <u>Miscellaneous Service Order Charge</u>		
Per Occurrence		5.4.2

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

Name of Utility _____
INTRASTATE ACCESS CHARGE TARIFF

INTRASTATE ACCESS TARIFF NO. 1
Section 17
Original Page 24
Amendment No. _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.2 Additional Engineering

<u>Additional Engineering Periods</u>	<u>Each Half Hour or Fraction Thereof</u>	<u>Tariff Section Reference</u>
(A) Basic Time per engineer normally scheduled working hours		13.1
(B) Overtime per engineer outside of normally scheduled working hours		13.1
(C) Premium Time outside of scheduled work day, per engineer		13.1

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.3 Additional Labor

<u>Additional Labor Periods</u>	<u>Each Half Hour or Fraction Thereof</u>	<u>Tariff Section Reference</u>
(A) Installation or Repair		
- Overtime, outside of normally scheduled working hours on a scheduled work day, per technician		13.2.1 & 13.2.2
- Premium Time, outside of scheduled work day, per technician		13.2.1 & 13.2.2
(B) Stand by		
- Basic time, normally scheduled working hours, per technician		13.2.3
- Overtime, outside of normally scheduled working hours on a scheduled work day, per technician		13.2.3
- Premium Time, outside of scheduled work day, per technician		13.2.3

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.3 Additional Labor (Cont'd)

<u>Additional Labor Periods</u>	<u>Each Half Hour or Fraction Thereof</u>		
	<u>Installation and Repair Technician</u>	<u>Central Office Maintenance Technician</u>	<u>Tariff Section Reference</u>
(C) Testing and Maintenance with other Telephone Companies, or Other Labor			
- Basic Time per technician normally scheduled			13.2.4
working hours			13.2.5
- Overtime per technician outside of normally scheduled working hours on a scheduled work day			13.2.4 & 13.2.5
- Premium Time per technician outside of scheduled work day			13.2.4 & 13.2.5

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.4 Miscellaneous Services

(A) Additional Cooperative Acceptance Testing - Switched Access

<u>Testing Periods</u>	Each Half Hour or Fraction Thereof	Tariff Section Reference
Basic Time, Overtime* and Premium Time*	See the rates for Additional Labor as set forth in 17.4.3(C) preceding.	13.3.1(A)(1)

(B) Additional Automatic Testing - Switched Access

To First Point
of Switching

Additional Tests

	Per Test Per <u>Transmission Path</u>	Tariff Section Reference
Gain-Slope Tests		13.3.1(A)(2)
C-Notched Noise Tests		13.3.1(A)(2)
1004 Hz Loss**		13.3.1(A)(2)
C-Message Noise**		13.3.1(A)(2)
Balance (return loss)**		13.3.1(A)(2)

* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

** 1004 Hz loss, C-Message Noise and Balance are non-chargeable routine tests, however, they may be requested on an as needed or more than routine scheduled basis, in which case the charges herein apply.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.4 Miscellaneous Services (Cont'd)

(C) Additional Manual Testing - Switched Access

To First Point
of Switching

Additional Tests

	<u>Each Half Hour or Fraction Thereof</u>	<u>Tariff Section Reference</u>
Gain-Slope, C-Notched Noise and any other agreed to tests, per technician	See the rates for Additional Labor as set forth in 17.4.3(C) preceding.	13.3.1(A)(3)

(D) Additional Cooperative Acceptance Testing - Special
Access

<u>Testing Periods</u>	<u>Each Half Hour or Fraction Thereof</u>	<u>Tariff Section Reference</u>
Basic Time, Overtime* and Premium Time*	See the rates for Additional Labor as set forth in 17.4.3(C) preceding.	13.3.1(B)(1)

- * A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.4 Miscellaneous Services (Cont'd)

(E) Additional Manual Testing - Special Access

<u>Testing Periods</u>	Each Half Hour or Fraction <u>Thereof</u>	Tariff Section <u>Reference</u>
Basic Time, Overtime* and Premium Time*	See the rates for Additional Labor as set forth in 17.4.3(C) preceding.	13.3.1(B)(2)

(F) Maintenance of Service

Maintenance of Service Periods	Each Half Hour or Fraction <u>Thereof</u>	Tariff Section <u>Reference</u>
Basic Time, Overtime* and Premium Time*	See the rates for Additional Labor as set forth in 17.4.3(C) preceding.	13.3.2

- * A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

Effective Date: January 1, 1990

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.4 Miscellaneous Services (Cont'd)

(G) Telecommunications Service Priority

Nonrecurring Charge

Tariff
Section
Reference

Per service arranged

13.3.3

(H) Controller Arrangement

Monthly Rate

Per Arrangement

13.3.4(A)

Nonrecurring Charge

(C)

(I) Presubscription

Per Telephone Exchange
Service line or trunk*

13.4

(J) Unauthorized PIC Change

(N)

- Residence/Business
Per Telephone Exchange
Service Line or Trunk

\$

13.5

- Public and/or Semi-public
pay telephone
Per Telephone Exchange
Service line or trunk

\$

13.5

(N)

* This charge is billed to the end user who is the subscriber to the Telephone Exchange Service. In the event an end user is incorrectly presubscribed due to misassignment on the part of the Telephone Company, no charge shall apply. In the event an end user is incorrectly presubscribed due to misassignment on the part of the IC, and the IC is unable to document such an assignment, the Telephone Company will apply the charge to the IC responsible for the misassignment of the end user and assign the end user to an IC of the end user's choice.

Effective Date: _____

Authorized by PSCW Order _____ Letter JUL -3 1996

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.5 Special Federal Government Access Services

(A) <u>Voice Grade Secure Communications</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	<u>Termination Charges</u>
Type I, each T-3 Conditioning,			
Additional Conditioning, per service termination			
Type II, each G-1 Conditioning,			
Type III, each G-2 Conditioning,			
Additional Conditioning, per service termination			
Type IV, each G-3 Conditioning,			
Additional Conditioning, per service termination			

(B) Wideband Digital Special Access Service

<u>Wideband Secure Communications</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	<u>Termination Charges</u>
Type I, each			
Type II, each			
Type III, each			

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.6 Special Facilities Routing of Access Services

(A) Diversity

For each service provided in accordance with 11.1.1 preceding, the rates and charges will be developed on an individual case basis.

(Reserved for future use)

(B) Avoidance

For each service provided in accordance with 11.1.2 preceding, the rates and charges will be developed on an individual case basis.

(Reserved for future use)

(C) Diversity and Avoidance Combined

For each service provided in accordance with 11.1.1 and 11.1.2 preceding, combined, the rates and charges will be developed on an individual case basis.

(Reserved for future use)

(D) Cable-Only Facilities

For each service provided in accordance with 11.1.4 preceding, the rates and charges will be developed on an individual case basis.

(Reserved for future use)

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.4 Other Services (Cont'd)

17.4.7 Specialized Service or Arrangements

Specialized Service or Arrangements are provided on an individual case basis as set forth following:

(Reserved for future use)

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Billing and Collection Services

17.5.1 Recording Service

	<u>Rates</u>	<u>Tariff Section Reference</u>
(A) Recording, - per customer message - per Special Order		8.1.6(b) 8.1.6(A)
(B) Assembling and editing, - per customer message*		8.1.6(B)
(C) Provision of customer Message detail, - unsorted without name and address information, per record processed - sorted output without name and address information, per record processed - unsorted output with name and address information, per record processed - sorted output with name and address information, per record processed - per tape or date file		8.1.6(C) 8.1.6(C) 8.1.6(C) 8.1.6(C)
(D) Data transmission to a customer location, - per record transmitted		8.1.6(D)

* Applicable when recording service is ordered without message rating service. Not applicable when message rating service, as set forth in 8.2, is provided to the customer except as set forth in 8.2.2 (A) (2) and 8.2.2 (B) (3).

Effective Date: January 1, 1990

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Billing and Collection Services (Cont'd)

17.5.1 Recording Service (Cont'd)

	<u>Rates</u>	<u>Tariff Section Reference</u>
(E) Program Development charge,		
- Basic, per hour		8.1.6(E)
(applicable to work performed within the Telephone Company's normal work schedule and using the normal work force)		
- Premium, per hour		8.1.6(E)
(applicable to work performed outside the Telephone Company's normal work schedule and/or which requires additions to the work force)		

17.5.2 Message Processing Service

	<u>Rates</u>	<u>Tariff Section Reference</u>
(A) Message Processing Service Special Order Charge,		
- per Special Order		8.2.6(A)
(B) Message Rating Service, per message		8.2.6(B)
(C) Message Billing Service		
(1) processing,		
- per message		8.2.6(C)(1)
(2) inquiry,		
- per message		8.2.6(C)(2)

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Billing and Collection Services (Cont'd)

17.5.2 Message Processing Service (Cont'd)

	<u>Rates</u>	<u>Tariff Section Reference</u>
(D) Minimum Charge - Monthly _____ Quarterly _____		8.2.5(C)
(E) Program Development, - Basic, per hour (applicable to work performed within the Telephone Company's normal work schedule and using the normal work force)		8.2.6(D)
- Premium, per hour (applicable to work performed outside the Telephone Company's normal work schedule and/or which requires additions to the work force)		8.2.6(D)
(F) Data transmission of rated customer messages detail between other Exchange Telephone Company locations, - per record transmitted or received		8.2.6(E)

Effective Date: January 1, 1990

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Billing and Collection Services (Cont'd)

17.5.2 Message Processing Service (Cont'd)

	<u>Rates</u>	<u>Tariff Section Reference</u>
(G) End User Account Activity,		
(1) Special Order Charge to receive end user account data, - per order		8.2.6(F)(1)
(2) End User Account Establishment or Change, except adjustments to end user account balance, rate element rate level changes and rate structure changes, per end user account established or changed, - per occurrence		8.2.6(F)(2)
(3) Adjustments to End User Account Balance - per adjustment		8.2.6(F)(3)
(4) End User Account Rate Element Rate level Change Charge, - per rate element changed, each		8.2.6(F)(4)
(5) End User Account Rate Element Rate Structure Change Charge, - per rate element changed, each		8.2.6(F)(5)
(H) Message Toll Sampling - per record extracted - per tape or data file		8.2.6(G) 8.2.6(G)
(I) Provision of Local Exchange Company Originating Messages Duplicate - per message		8.2.6(H)

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Billing and Collection Services (Cont'd)

17.5.3 Billing System Information Service

	<u>Rates</u>	<u>Tariff Section Reference</u>
(A) Provision of Billing System Information Service, - per Special Order		8.3.6(A)
(B) Billing System Information Detail Paper output, - per record processed		8.3.6(B)
Magnetic tape, - per tape or data file		8.3.6(B)
- per record processed		8.3.6(B)
Fiche output, - per record processed		8.3.6(B)
(C) Program Development charge, - Basic, per hour (applicable to work performed within the Telephone Company's normal work schedule and using the normal work force)		8.3.6(C)
- Premium, per hour (applicable to work performed outside the Telephone Company's normal work schedule and/or which requires additions to the work force)		8.3.6(C)

Effective Date: January 1, 1990

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ACCESS SERVICE

17. Rates and Charges (Cont'd)

17.5 Billing and Collection Services (Cont'd)

17.5.3 Billing System Information Service (Cont'd)

	<u>Rates</u>	Tariff Section <u>Reference</u>
(D) Data transmission of Billing Information Service details, to a location designated by the customer - per record transmitted		8.3.6(D)
(E) Marking of Message End User Accounts, - marking, per end user account		8.3.6(E)

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter _____

WIRE CENTER AND INTERCONNECTION INFORMATION

TITLE PAGE

THIS TARIFF CONTAINS INFORMATION RELATED TO WIRE CENTERS PROVIDING ACCESS SERVICE IN LOCAL ACCESS AND TRANSPORT AREAS (LATA) AND MARKET AREAS (MAS), AND INTERCONNECTION INFORMATION WHEN TWO OR MORE EXCHANGE CARRIERS ARE JOINTLY PROVIDING ACCESS SERVICE WITHIN OR BETWEEN LATAS OR MAS UNDER SEPARATE ACCESS SERVICE TARIFFS.

THIS TARIFF ALSO CONTAINS REGULATIONS FOR CALCULATING THE AIRLINE MILEAGE BETWEEN WIRE CENTERS, ON WHICH CERTAIN ACCESS SERVICE CHARGES ARE BASED, USING THE VERTICAL AND HORIZONTAL COORDINATES METHOD.

THE NAME AND ADDRESS OF THIS TARIFF'S ISSUING CARRIERS ARE LISTED IN SECTION 2 OF THIS TARIFF.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

ISSUING CARRIERS

Mr. Carl F. Bohman
General Manager
Amherst Telephone Company
P.O. Box 279
120 Mill Street
Amherst, WI 54406

Mr. Michael D. Jensen
President & General Manager
Amery Telephone Company
116 North Harriman Avenue
Amery, WI 54001

Mr. Louis D. Reilly, III (T)
Wisconsin Regional Manager
Badger Telecom, Inc.
301 South Westfield Road
P.O. Box 5901 (T)
Madison, WI 53705-0901 (T)

Mr. Larry Knegendorf
General Manager
Baldwin Telecom Inc
930 Maple Street
Baldwin, WI 54002

Mr. J.R. Hermsen
President, Treas. & Gen. Man.
Bayland Telephone, Inc.
Box 200 (T)
Abrams, WI 54101

Mr. Richard A. Kiesling
President & General Manager
Belmont Telephone Company
2801 International Ln. Suite 207 (T)
Madison, WI 53704

Mr. Donald E. Weig
President & General Manager
Bergen Telephone Company
105 Plain Street
Sharon, WI 53585

Mr. Louis D. Reilly, III (T)
Wisconsin Regional Manager
Black Earth Telephone Company
301 S. Westfield Road
P.O. Box 5901 (N)
Madison, WI 53705

Mr. Dale Bitney
General Manager
Bloomer Telephone Company
1120 15th Avenue
Bloomer, WI 54724

Mr. Louis D. Reilly, III (T)
Wisconsin Regional Manager
Bonduel Telephone Company
301 South Westfield Road
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Mr. David J. Manosky, Jr. (T)
President & General Manager
Bruce Telephone Company, Inc.
620 North Alvey Street
Bruce, WI 54819

Mr. Louis D. Reilly, III (T)
Wisconsin Regional Manager
Burlington, Brighton & Wheatland
Telephone Company
301 South Westfield Road
P.O. Box 5901 (T)
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(D)

Mr. Louis D. Reilly, III (T)
Wisconsin Regional Manager
Central State Telephone Company
301 South Westfield Road
P.O. Box 5901 (T)
Madison, WI 53705-0901 (T)

ISSUING CARRIERS

	(D)	Mr. Richard A. Kiesling President Cuba City Tel. Exchange Co. Inc. 2801 International Ln., Ste. 207 Madison, WI 53704	(T)
	(D)		
Mr. Marv Cunningham Century Telephone of WI., Inc. c/o Century Tel Enterpr., Inc. P.O. Box 4065 Monroe, LA 71211		Mr. Brian Miller General Manager Chequamegon Telephone Coop, Inc. P.O. Box 67 Cable, WI 54821	(T)
Mr. Ross Channing Manager Citizens Telephone Cooperative P.O. Box 127 New Auburn, WI 54757		Mr. Rick Vergin General Manager Chibardun Telephone Coop, Inc. 110 North Second Avenue Dallas, WI 54733	(T)
Mr. Mark B. Anderson President Clear Lake Telephone Co., Inc. P.O. Box 47 Clear Lake, WI 54005		Mrs. M. Miller Commercial Manager Fairwater-Brandon-Alto Tel. Co. P.O. Box 137 Randolph, WI 53956	
Mr. Rudy Klink Manager Cochrane Cooperative Telephone P.O. Box 189 Cochrane, WI 54622	(T)	Mr. Dana Olson General Manager Farmers Indep. Telephone Company P.O. Box 447 Grantsburg, WI 54840	(T)
Mr. LeRoy A. Manke Manager Coon Valley Farmers Tel Co Inc 105-107 Central Avenue P.O. Box 48 Coon Valley, WI 54623		Mr. Edward J. Neckvatal General Manager Farmers Telephone Company 140 North Monroe Street P.O. Box 467 Lancaster, WI 53813	(T)
Mr. Kirby H. Roen Vice President & General Manager Crandon Telephone Company 105 South Hazeldell Avenue Crandon, WI 54520	(T) (T)		(D) (D)
		Mr. Marv Cunningham Forestville Telephone Company c/o Century Tel Enterpr., Inc. P.O. Box 4065 Monroe, LA 71211	

Effective Date: March 2, 1995
Authorized By PSCW Order: _____

Letter: March 2, 1995

ISSUING CARRIERS

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Dickeyville Telephone Corp
140 North Monroe
P.O. Box 509
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Mr. John K. Klatt
General Manager
Luck Telephone Company
28 First Avenue West
Luck, WI 54853

Mr. Kirby H. Roen (T)
Vice President and General Manager (T)
Headwaters Telephone Company
53 North Stevens Street
P.O. Box 340
Rhineland, WI 54501

(D)
|
(D)

Mr. Charles E. Hammer
Vice President & General Mngr
Hillsboro Telephone Company
121 Mill Street
Hillsboro, WI 54634

Mr. Thomas R. Squires (T)
President
Manawa Telephone Co., Inc.
131 Second Street
Manawa, WI 54949

Mr. Steven H. Sjogren
V. President - Operations
Indianhead Telephone Company
256-4th Street
Weyerhaeuser, WI 54895

(D)
|
(D)

Mr. Robert Gens
General Manager
LaValle Telephone Cooperative
P.O. Box 28
LaValle, WI 53941

Ms. Diana LaPointe (T)
Manager
Marquette-Adams Tel. Co., Inc.
P.O. Box 45
Oxford, WI 53952

Mr. Phillip Nass
General Manager
Lakefield Telephone Company
P.O. Box 102
Newton, WI 53063

Mr. Marv Cunningham
Larsen-Readfield Telephone
c/o Century Tel Enterpr., Inc.
P.O. Box 4065
Monroe, LA 71211

Mr. Todd C. Schafer (T)
General Manager (T)
Lakeshore Telephone Company
P.O. Box 209 (T)
Clintonville, WI 54929 (T)

Mr. Paul D. Berg
General Manager
Lemonweir Valley Telephone Co.
P.O. Box 267
Camp Douglas, WI 54618

Mr. David J. Carter
General Manager
Hager Telecom, Inc.
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Hager City, WI 54014

Mr. Robert Kainz
Manager
Milltown Mutual Telephone
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Milltown, WI 54858

Effective Date: March 2, 1995
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Letter: March 2, 1995

ISSUING CARRIERS

Mr. James L. Hesselman
General Manager
Mondovi Telephone Company
217 South Eau Claire Street
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Mr. Marv Cunningham
Monroe County Telephone Co.
c/o Century Tel Enterpr. Inc.
P.O. Box 4065
Monroe, LA 71211

Mr. Louis D. Reilly, III (T)
Wisconsin Regional Manager
East Coast Telecom, Inc.
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Ms. Mary Knoedler
President
Mosinee Telephone Company
410 Fourth Street
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Mr. Robert Busch
Manager-External Affairs
Mid-Plains Telephone, Inc.
1912 Parmenter Street
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Middleton, WI 53562

Mr. Louis D. Reilly, III (T)
Wisconsin Regional Manager
Midway Telephone Company
301 South Westfield Road
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Mr. Gerald L. Levenske
General Manager
Nelson Telephone Cooperative
318 Third Avenue, West
Durand, WI 54736

Mr. Sydney R. Peterson
President & Manager
Niagara Telephone Company
1141 Main Street
P.O. Box 3
Niagara, WI 54551

Mr. Pat Riordan (T)
President
Northeast Telephone Company
P.O. Box 860
Pulaski, WI 54162

Mr. John A. Klarer
General Manager
Mt. Horeb Telephone Company
200 East Main Street
P.O. Box 65
Mount Horeb, WI 53572

Mr. Louis D. Reilly, III (T)
Wisconsin Regional Manager
Mt. Vernon Telephone Company
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Mr. Clark Eckhoff (T)
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Rib Lake Telephone Company
1199 Fayette Avenue
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Mr. Robert Gens
General Manager
Richland-Grant Tel. Coop., Inc.
P.O. Box 67
Blue River, WI 53518

(D)
|
(D)

ISSUING CARRIERS

Mr. Louis D. Reilly, III President Riverside Telecom, Inc. 301 South Westfield Road P.O. Box 5901 Madison, WI 53705-0901	(T)	Mr. Kirby H. Roen General Manager Rhineland Telephone Company 53 North Stevens Street P.O. Box 340 Rhineland, WI 54501	(T)
Mr. Louis D. Reilly, III Scandinavia Telephone Company 301 South Westfield Road P.O. Box 5901 Madison, WI 53705-0901	(T)	Mr. Donald Hewitt General Manager Southeast Tel. Co. of WI, Inc. 311 Elizabeth Street Waterford, WI 53185	(T)
Mr. Donald E. Weig President & General Manager Sharon Telephone Company 105 Plain Street Sharon, WI 53585		Mr. Max Downs General Manager Spring Valley Telephone Co. Inc. 131 South McKay Spring Valley, WI 54767	(T)
	(D)		(T)
		General Manager St. Croix Telephone Co. 154 East Second Street New Richmond, WI 54017	
	(D)		
Mr. Richard Martin General Manager Kendall Telephone Company P.O. Box 70 Kendall, WI 54638		Mr. P. S. Quam General Manager Siren Telephone Co., Inc. First & Johnson P.O. Box 506 Siren, WI 54872	
Mr. Bryan D. Woltman Controller Peoples Telephone Company P.O. Box 98 Randolph, WI 53956		Mr. Marv Cunningham Solon Springs Telephone Co. Inc. c/o Century Tel Enterpr., Inc. P.O. Box 4065 Monroe, LA 71211	
	(D)		
		Mr. Victor Martinsen Secretary Somerset Telephone Company P.O. Box 159 Somerset, WI 54025	(T)
	(D)		
Mr. Robert Mess President Price County Telephone Company 135 North Avon Avenue Phillips, WI 54555			

Effective Date: March 2, 1995

Authorized By PSCW Order: _____

Letter: March 2, 1995

ISSUING CARRIERS

(D)	Mr. Fred W. Weier General Manager Tri-County Telephone Coop Fifth Avenue P.O. Box 367 Strum, WI 54770	
(D)		
Mr. Dwight H. Bowden Vice President Union Telephone Company P.O. Box 96 Plainfield, WI 54966-0096	Mr. Martin Kjelland Manager Vernon Telephone Cooperative 103 North Main Street Westby, WI 54667	(T) (T)
Mr. C. D. Metcalf President UTELCO P.O. Box 88 Monroe, WI 53566	Mr. Marv Cunningham Universal Tel.Co. of WI, Inc. c/o Century Tel Enterpr., Inc. P.O. Box 4065 Monroe, LA 71211	
Mr. Louis D. Reilly, III Wisconsin Regional Manager Stockbridge & Sherwood Telephone 301 South Westfield Road P.O. Box 5901 Madison, WI 53705-0901	(T) Mr. Todd C. Schafer General Manager Urban Telephone Corporation 25 West 12th Street P.O. Box 209 Clintonville, WI 54929	(T) (T) (T)
Mr. Jerry Cuetschow Assistant Treasurer State Long Distance Telephone 216 West Walworth Elkhorn, WI 53121	Mr. Louis D. Reilly, III Wisconsin Regional Manager Grantland Telecom, Inc. 301 South Westfield Road P.O. Box 5901 Madison, WI 53705-0901	(T) (T) (T)
(D)		
(D)	Mr. William Markert General Manager Viroqua Telephone Company 114 East Court Street P.O. Box 191 Viroqua, WI 54665	(T) (T)
Mr. Louis D. Reilly, III Wisconsin Regional Manager Tenney Telephone Company 301 South Westfield Road P.O. Box 5901 Madison, WI 53705-0901	(T) Mr. Louis D. Reilly, III Wisconsin Regional Manager Waunakee Telephone Company 301 South Westfield Road P.O. Box 5901 Madison, WI 53705-0901	(T) (T) (T) (T)
(D)		
(D)		

Effective Date: March 2, 1995
Authorized By PSCW Order: _____

Letter: March 2, 1995

ISSUING CARRIERS

(D)

(D)

Mr. Randy R. Siler
General Manager
West WI Telcom Cooperative, Inc.
P.O. Box 115
Downsville, WI 54735

(T)

Mr. Ludwig Landowski
Manager
Wittenberg Telephone Company
P.O. Box 160
Wittenberg, WI 54499

Mr. Robert Hewitt
President & General Manger
Wood County Telephone Company
440 East Grand Avenue
Wisconsin Rapids, WI 54494

(T)

Effective Date: March 2, 1995
Authorized By PSCW Order: _____

Letter: March 2, 1995

WIRE CENTER AND INTERCONNECTION INFORMATION

CHECK SHEET

The Title Page section and sections listed below are effective as of the date shown for each section. When revisions are made to any section, the entire section is revised and carries a new issued and effective date on each page. The total number of pages in each section is given with each revision.

	<u>SECTION</u>	<u>PAGES</u>	<u>REVISION</u>	<u>ISSUED</u>	<u>EFFECTIVE</u>
1	Title Page	1			
2	Issuing Carriers				
3	Check Sheet				
4	Table of Contents				
5	Tariff Information and use, Reference To Other Tariffs				
6	Symbols, Abbreviations Service Marks, Trademarks				
7	Listing of Office Type Codes				
8	Company Codes				
9	Application				
10	General				
11	Mileage Measurement				
12	Wire Center Information				

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

WIRE CENTER AND INTERCONNECTION INFORMATION

TABLE OF CONTENTS

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Symbols, Abbreviations, Service Marks, Trademarks	6
Listing Of Office Type Codes	7
Company Codes	8
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Wire Center Information	12

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

WIRE CENTER AND INTERCONNECTION INFORMATION

TARIFF INFORMATION AND USE

General

- This tariff contains regulations for determining airline mileage between wire centers for the billing of access services, specific data related to each access service wire center, and access service interconnection information.

Tariff Format

- This tariff is segmented into many sections (e.g., Title Page, and Mileage Measurement), which are numbered sequentially. The sections are listed in the Check Sheet section and the Table of Contents section.

Section Format

- Each section starts with Page 1 and each additional page within that section is consecutively numbered. When revisions are required, the entire tariff section affected will be reprinted and reissued. The status of all sections are shown on the check sheets which list the revision number and issue and effective date of all sections as well as the total number of pages in each section. The end of each section is indicated by the statement "End of Section", on the last page of that section.

Tariff Page Format

- Page Numbering. Page numbers are located in the upper right corner of each tariff page. Pages are numbered equentially within each section.
- Section Revision Numbering. Section revision numbers are located in the upper right corner of each tariff page. This number is the most recent section revision on file. Due to notice periods, and changed effective dates, the most recent section on file FCC may not be in effect. Consult the effective date on a specific section and tariff supplements to determine if that section is in effect (see tariff supplements following).

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

WIRE CENTER AND INTERCONNECTION INFORMATION

TARIFF INFORMATION AND USE (CONT'D)

- Amendment Number. The amendment number in the upper right corner of each tariff page is the number that section assigned by the PSCW.
- Effective Date. The Effective Date in the lower left corner of each tariff page is the date the section is scheduled to go into effect (at 12:01am on that date). This date may be changed either by reissuing the section, or by issuing a tariff supplement to change the effective date without reissuing the section. A tariff supplement is usually used when many tariff pages are involved to avoid the necessity to reprint and reissue many pages solely to change the effective date.

Tariff Section Numbering

- Tariff sections are numbered sequentially as indicated on the Check Sheets and Table of Contents.

Tariff Revision Coding

- Revisions to this tariff are coded through the use of symbols. These symbols appear in the right margin of the page. The symbols and their meanings are:
 - N - To signify new regulation or wire center data.
 - D - To signify discontinued regulation or wire center data.
 - C - To signify a changed regulation or wire center data.
 - T - To signify a change in text but no change in regulation.
 - S - To signify matter reissued without change.
 - M - To signify matter relocated without change.
 - Z - To signify a correction.
- These symbols will be associated with each printed line of text or of a record being revised.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

WIRE CENTER AND INTERCONNECTION INFORMATION

TARIFF INFORMATION AND USE (CONT'D)

Tariff Revision Coding (Cont'd)

- When a wire center record consists of two or more lines of text, each line of that record will be coded to indicate that the record is new, has been revised or is being discontinued. Revised wire centers will carry the marginal "C" coding. If the record being revised consists of two or more lines, each line will carry the "C" coding to indicate that the entire record should be reviewed to determine the revision made. Rather than inserting a blank line for discontinued material, The Wisconsin Telephone Association will list a partial entry for discontinued wire center to retain the discontinued entry in proper tariff order. Deleted wire center data will list the locality name, NPA and NXX. All other data of the deleted entry will be replaced with the letter "X", and the entry will carry the marginal "D" coding.
- Other marginal codes are used to direct the reader to a footnote for specific information. Codes used for this purpose are special symbols, (e.g., #, * and @). These codes may appear beside the page revision number or in the right margin opposite specific text.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

WIRE CENTER AND INTERCONNECTION INFORMATION

TARIFF INFORMATION AND USE (CONT'D)

TARIFF STRUCTURE AND ORGANIZATION

Tariff Supplements

- A supplement may be filed with the Wisconsin Public Service Commission to change the effective date of tariff sections without reissuing or refiling the affected tariff.
- A supplement will briefly describe the action taken (e.g., suspension, deferral, effective date change, etc.) as well as indicate what tariff sections are affected.
- The supplements in effect are listed by number on the first Check Sheet (Section 3) in the text at the top of that Check Sheet. When a supplement is no longer needed, it will be deleted from the Check Sheet.
- It is recommended that supplements be placed in the front of the tariff, preceding the Title Page (Section 1).

Title Page (Section 1)

- The Title Page provides information regarding the PSCW number of the tariff, the type of information provided, and the geographical application of the tariff. This page also provides information related to the origination of the tariff.

Issuing Carriers (Section 2)

- In addition to issuing carriers, all concurring, connecting and other participating carriers are listed in this section. In addition to the name and address of the issuing carriers, the Telephone Company codes (also listed in Section 8) are provided.

Check Sheets (Section 3)

- When new or revised sections are filed with the PSCS, revised and updated check sheets are also filed with the PSCW.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

WIRE CENTER AND INTERCONNECTION INFORMATION

TARIFF INFORMATION AND USE (CONT'D)

TARIFF STRUCTURE AND ORGANIZATION (CONT'D)

Check Sheets (Section 3) (Cont'd)

- The check sheets list all sections in the tariff and the total pages in each section as well as the most recent revision number of each section. When sections are changed, or added, the check sheets are changed to reflect the change or addition. An asterisk (*) is placed next to the revised or added sections to highlight the changed sections.
- The check sheets list the most recent section revision filed with the PSCW. They do not indicate that the latest revision is effective. The effective date on the section itself and the tariff supplements (see above) must be examined to determine section effectiveness.

Table of Contents (Section 4)

- The Table of Contents lists the sections of the tariff.

Tariff Information and Use, Reference to Other Tariffs (Section 5)

- This section describes the tariff's makeup; including its format, structure, organization, use, and a brief description of each section of the tariff.
- This section also contains a statement concerning references to other tariffs.
Symbols, Abbreviations, Service Marks and Trademarks (Section 6)
- A listing and explanation of tariff coding symbols, abbreviations, service marks and trademarks used in the tariff is provided.

Listing of Office Type Codes (Section 7)

- A listing and brief description of office type codes used in the tariff is provided.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

WIRE CENTER AND INTERCONNECTION INFORMATION

TARIFF INFORMATION AND USE (CONT'D)

TARIFF STRUCTURE AND ORGANIZATION (CONT'D)

Company Codes for Exchange Telephone Companies (Section 8)

- A listing of the four digit company ownership identifying codes for exchange telephone company wire centers listed in this tariff, is provided.
- Company codes are listed in numerical order.

Application (Section 9)

- States the application and scope of this tariff.

General (Section 10)

- States the general methods of development and use of the vertical and horizontal coordinate means of determining mileage.

Mileage Measurement (Section 11)

- Provides the method to be used to compute airline mileage for access services and provides an example.

Serving Wire Center V&H Coordinate Information (Section 12)

- Lists, in alphabetical order, each access service wire center by exchange name.
- Provides specific data related to each wire center:
 - Wire center (exchange) locality name
 - Numbers in parenthesis displayed behind locality name are blocks of numbers within that wire center
 - Common Language location identifier
 - Vertical and Horizontal coordinates
 - Company (ownership) code
 - Lata or market area affiliation
 - Access services available
 - NPA-NXX

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

WIRE CENTER AND INTERCONNECTION INFORMATION

TARIFF INFORMATION AND USE (CONT'D)

REFERENCE TO OTHER TARIFFS

Whenever reference is made in this tariff to other tariffs of the telephone company, the reference is to the tariffs in force as of the effective date of this tariff, and to amendments thereto and successive issues thereof.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

WIRE CENTER AND INTERCONNECTION INFORMATION

EXPLANATION OF SYMBOLS

- (N) - To signify new regulation or wire center data.
- (D) - To signify discontinued regulation or wire center data.
- (C) - To signify a changed regulation or wire center data.
- (T) - To signify a change in text but no change in regulation.
- (S) - To signify matter reissued without change.
- (M) - To signify matter relocated without change.
- (Z) - To signify a correction.

EXPLANATION OF ABBREVIATIONS

- ALL - All Service Route (SVC)
- ATO - Access Tandem Office (NXX)
- BP - Billing Percentage
- CC - Company Code
- CONT'D - Continued
- CLLI - Common Language Location Identifier
- DA - Directory Assistance
- DDH - Digital Data Hub (NXX)
- END - End Office Wire Center/Company (OI)
- IBP - International Boundary Point (NXX)
- IC - Interexchange Carrier

- INT - Intermediate Office/Company (OI)
- IWA - Inwats Service (SVC)
- LATA - Local Access And Transport Area
- LC - Location Code
- LSO - Local Serving Office (OI)
- MA - Market Area
- NPA - Numbering Plan Area
- NXX - Central Office Code or Prefix
- OI - Office Indicator
- OPH - Operator Route (SVC)
- OT - Office Type Code
- OWS - Outwats Service (SVC)
- PAH - Program Audio Hub (NXX)
- PSN - Packet Switch Node (NXX)

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

WIRE CENTER AND INTERCONNECTION INFORMATION

EXPLANATION OF ABBREVIATIONS (CONT'D)

SAO	-	Special Access Office (NXX)
SPA	-	Special Access Route (SVC)
SVC	-	Service Type
SWA	-	Switched Access Route (SVC)
SWD	-	Switched Dialed (SVC)
SWO	-	Switched Access Originating (SVC)
SWT	-	Switched Access Terminating (SCVC)
V&H	-	Vertical and Horizontal
VDH	-	Video Hub (NXX)
WCH	-	Wire Center Horizontal Coordinate
WCV	-	Wire Center Vertical Coordinate
WSO	-	Wats Screening Office (OI)

REGISTERED SERVICE MARKS

None

TRADEMARKS

Location identifiers that appear in this document are for the convenience of the user and may contain standard CLLI codes as well as nonstandard codes. Common language, CLEI, CLLI, CLCI, CLFI are trademarks of Bell Communications Research, Inc. and explanatory material is available under license if desired.

Effective Date: January 1, 1990

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WIRE CENTER AND INTERCONNECTION INFORMATION

LISTING OF OFFICE TYPE CODES

- (A) - Feature Group A Office
- (B) - Feature Group B Office
- (C) - Feature Group C Office
- (D) - Feature Group D Office
- (E) - Metallic Bridging (Three Premises and Series)
- (F) - Telegraph Bridging (Two-Wire and Four-Wire)
- (G) - Voice Bridging (Two-Wire and Four-Wire)
- (H) - Voice Grade Data Bridging (Two-Wire and Four-Wire)
- (I) - Telephoto Bridging (Two-Wire and Four-Wire)
- (J) - Directory Assistance Location
- (K) - Telemetry and Alarm Bridging Split Band (Active)
- (L) - Telemetry and Alarm Bridging Summation (Active)
- (M) - Telemetry and Alarm Bridging Passive
- (N) - Voice Grade Multiplexing (Voice to Telegraph)
- (O) - Digital Data hub (Includes DS1 to DS0 and DS0 to Subrate 2.4, 4.8, 9.6 Multiplexing and Bridging)
- (P) - Program Audio Hub
- (Q) - Video Hubs Serving Wire Center
- (S) - Digital Data Service Secondary Channel (DDSSC)
- (T) - Toll Station Location
- (U) - Dataphone Select-A-Station Bridging - Sequential Arrangement (Two-Wire and Four-Wire)
- (V) - Dataphone Select-A-Station Bridging - Addressable Arrangement (Two-Wire and Four-Wire)
- (W) - Wideband Analog Multiplexing (Mastergroup to Supergroup)
- (X) - Wideband Analog Multiplexing (Supergroup to Group)
- (Y) - Wideband Analog Multiplexing (Group to Voice)
- (Z) - Wideband Analog Multiplexing (Group to DS1)

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

WIRE CENTER AND INTERCONNECTION INFORMATION (CONT'D)

LISTING OF OFFICE TYPE CODES (CONT'D)

- (a) - High Capacity Multiplexing (DS4 to DS1)
- (b) - High Capacity Multiplexing (DS3 to DS1)
- (c) - high Capacity Multiplexing (DS2 to DS1)
- (d) - High Capacity Multiplexing (DS1C to DS1)
- (e) - High Capacity multiplexing (DS1 to Voice or DS1 to Voice-Terminous)
- (h) - Special Access Office
- (i) - Access Tandem Office
- (j) - Wats or Wats Type Office
- (k) - International Boundary Point
- (l) - High Capacity Multiplexing (DS1 to Voice or DS1 to Voice-Intermediate)

- (m) - Access Concentrator
- (n) - Packet Switch
- (o) - 800 or 800 Type Service
- (p) - Digital Data Hub (DS1 to Digital)
- (q) - High Capacity Multiplexing (DS1 to Voice-Super intermediate)
- (r) - Public Switched Digital Service (PSDS)
- (s) - Feature Group D without 10XXX Dialing
- (t) - Minimum Divergence Access Service (MDAS)
- (u) - High Capacity Multiplexing - Terminous (DS3 to DS1)
- (v) - High Capacity Multiplexing - Intermediate (DS3 to DS1)
- (w) - Network Reconfiguration Office
- (x) - Centralized Equal Access End Office
- (y) - Centralized Equal Access Tandem Office
- (z) - Feature Group B Interim Access Office

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WISCONSIN STATE TELEPHONE ASSOCIATION
INTRASTATE ACCESS CHARGE TARIFF

INTRASTATE ACCESS TARIFF NO. 2

Section 8

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Amendment No. 6

WIRE CENTER AND INTERCONNECTION INFORMATION

COMPANY CODES FOR EXCHANGE TELEPHONE COMPANIES

CODE	COMPANY	CODE	COMPANY
0980	BERGEN TELE CO - IL	1080	SHARON TELE CO - IL
0842	AMERY TELE CO	0915	MOSINEE TELE CO
0843	AMHERST TELE CO	0916	MT HOREB TELE CO
0844	BADGER STATE TELE CO	0917	MT VERNON TELE CO
0846	BALDWIN TELECOM INC	0918	NELSON TELE CO
0847	BELMONT TELE CO	0920	NIAGARA TELE CO
0848	BERGEN TELE CO - WI	0922	NORTH-WEST TELE CO
0849	BLACK EARTH TELE CO	0924	KENDALL TELE CO
0850	BLOOMER TELE CO	0925	BAYLAND TELE INC
0851	BONDUEL TELE CO	0931	PEOPLES TELE CO
0855	BRUCE TELE CO INC	0934	PLATTEVILLE TELE CO
0856	BURLINGTON, BRIGHTON & WHEATLAND TELE CO	0936	INDIANHEAD TELE CO
0857	CASCO TELE CO	0937	PRICE COUNTY TELE CO
0858	LAKESHORE TELE CO	0938	NORTHEAST TELE CO
0859	CENTRAL STATE TELE CO	0940	RHINELANDER TELE CO
0860	CHEQUAMEGON TELE COOP INC	0941	RIB LAKE TELE CO
0861	CHIBARDUN TELE COOP INC	0942	RICHLAND-GRAND TELE COOP
0863	CITIZENS TELE COOP INC	0943	ROCK RIVER TELE CO
0865	CLEAR LAKE TELE CO INC	0944	ST. CROIX TELE CO
0866	COCHRANE COOP TELE CO	0945	SCANDINAVIA TELE CO
0868	COON VALLEY FARMERS	0946	SHARON TELE CO - WI
0870	CRANDON TELE CO	0948	SHELL LAKE TELE CO INC
0872	CUBA CTY TEL EXCH CO INC	0949	SIREN TELE CO INC
0875	DICKEYVILLE TEL CORP	0950	SOLON SPRGS TELE CO INC
0876	DODGE COUNTY TELE CO	0951	SOMERSET TELE CO INC
0877	FAIRWATER-BRANDON-ALTO TEL CO	0952	SE TELE CO OF WISC INC
0879	FARMERS INDEP TELE CO	0953	SPRING VALLEY TELE CO INC
0880	FARMERS TELE CO	0954	STATE LONG DIST. TELE CO
	GREENWOOD TELE CO	0956	UNIVERSAL TEL CO WISC INC
0881	MID-PLAINS TELE INC	0957	SULLIVAN TELE CO
0882	FENNIMORE TELE CO	0958	TENNEY TELE CO
0883	FOOTVILLE TELE CO	0959	THORP TELE CO
0884	FORESTVILLE TELE CO INC	0960	TRI-COUNTY TELE COOP INC
0889	HAGER CITY TELE CO	0961	TURTLE LAKE TELE CO INC
0891	HEADWATERS TELE CO	0962	UNION TELE CO
0892	HILLSBORO TELE CO INC	0963	UTELCO
0895	CENTURY TELE OF WISC	0964	URBAN TELE CORP
0896	LAKEFIELD TELE CO	0965	VALDER TELE CO
0898	LARSEN-READFIELD TELE CO	0966	VERNON TELE COOP
0899	LA VALLE TELE COOP	0967	VIROQUA TELE CO
0900	LEMONWEIR VALLEY TELE CO	0968	WAUNAKEE TELE CO
0886	GTE NORTH, INC.	0970	WAYSIDE TELE CO

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WISCONSIN STATE TELEPHONE ASSOCIATION
INTRASTATE ACCESS CHARGE TARIFF

INTRASTATE ACCESS TARIFF NO. 2

Section 8

Original Page 2

Amendment No. 6

WIRE CENTER AND INTERCONNECTION INFORMATION

COMPANY CODES FOR EXCHANGE TELEPHONE COMPANIES

CODE ____ COMPANY ____

0902 LUCK TELE CO
0904 MADELINE ISLAND TELE
0905 MANAWA TELE CO INC
0907 MAPLE TELE COOP INC
0908 MARQUETTE-ADAMS TEL COOP INC
0909 MIDWAY TELE CO
0910 MILLTOWN MUTUAL TELE CO
0912 MONDOVI TELE CO
0913 MONROE COUNTY TELE CO
0914 MOSEL & CENTERVILLE TEL CO

CODE ____ COMPANY ____

0971 W WISCONSIN TELCOM COOP
0973 WITTENBERG TELE CO
0974 WOOD COUNTY TELE CO
1433 MID STATE TELE CO
1698 CLEVELAND CTY TELE CO INC
1699 DECATUR TELE CO
2010 MID AMERICA TELE INC
2234 TROY TELE CO INC
2377 HOME TELE CO
5220 WISCONSIN BELL INC.

Effective Date: January 1, 1990

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WISCONSIN STATE TELEPHONE ASSOCIATION
INTRASTATE ACCESS CHARGE TARIFF

INTRASTATE ACCESS TARIFF NO. 2

Section 9

Original Page 1

Amendment No. 6

WIRE CENTER AND INTERCONNECTION INFORMATION

APPLICATION OF TARIFF

THIS TARIFF LISTS WIRE CENTERS WITHIN WISCONSIN FROM WHICH ACCESS SERVICE IS PROVIDED AND THEIR VERTICAL AND HORIZONTAL COORDINATES WHICH ARE USED TO CALCULATE AIRLINE MILEAGE BETWEEN WIRE CENTERS AND OTHER WIRE CENTER DATA.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

WIRE CENTER AND INTERCONNECTION INFORMATION

GENERAL

FOR THE PURPOSE OF DETERMINING AIRLINE MILEAGES, VERTICAL AND HORIZONTAL GRID LINES HAVE BEEN ESTABLISHED ACROSS THE UNITED STATES. THE SPACING BETWEEN ADJACENT VERTICAL GRID LINES AND

BETWEEN HORIZONTAL GRID LINES REPRESENTS A DISTANCE OF ONE COORDINATE UNIT. THIS UNIT IS THE SQUARE ROOT OF 0.1, EXPRESSED IN STATUTE MILES. A VERTICAL (V) AND A HORIZONTAL (H) COORDINATE IS COMPUTED FOR EACH WIRE CENTER FROM ITS LATITUDE AND LONGITUDE

LOCATION BY USE OF APPROPRIATE MAP-PROJECTION EQUATIONS. A PAIR OF V-H COORDINATES LOCATES A WIRE CENTER, FOR DETERMINING AIRLINE MILEAGES, AT A PARTICULAR INTERSECTION OF AN ESTABLISHED VERTICAL GRID LINE WITH AN ESTABLISHED HORIZONTAL GRID LINE. THE DISTANCE

BETWEEN ANY TWO WIRE CENTERS IS THE AIRLINE MILEAGE COMPUTED AS EXPLAINED IN SECTION 11 FOLLOWING.

THE WIRE CENTERS IN THIS TARIFF, BETWEEN WHICH MILEAGE IS MEASURED, ARE LISTED ALPHABETICALLY BY LOCALITY. THE TERM "LOCALITY" IS MEANT TO REPRESENT THE GEOGRAPHICAL AREA, SUCH AS A CITY, TOWN, TOWNSHIP OR SIMILAR AREA, IN WHICH A WIRE CENTER IS PHYSICALLY LOCATED. THE LATA COLUMN DATA IS MEANT TO REPRESENT LATA OR MARKET AREA AFFILIATION.

INTERCONNECTION POINT INFORMATION IS ALSO LISTED ALPHABETICALLY BY LOCALITY NAME FOR EACH INTERCONNECTION POINT ENTRY. AN INTERCONNECTION POINT ENTRY CONSISTS OF TWO OR MORE LINES THAT PROVIDE THE NAME AND LOCATION CODE OF THE END OFFICE LOCALITY OR LOCALITIES.

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

WIRE CENTER AND INTERCONNECTION INFORMATION

MILEAGE MEASUREMENT

THIS SECTION CONTAINS THE INFORMATION NECESSARY TO COMPUTE AIRLINE MILEAGE ON WHICH CERTAIN ACCESS SERVICE RATES ARE BASED. THE METHOD DESCRIBED HERE IS USED FOR COMPUTING AIRLINE MILEAGE FOR SWITCHED ACCESS, SPECIAL ACCESS AND DIRECTORY ASSISTANCE SERVICES.

DETERMINATION OF MILEAGE BETWEEN WIRE CENTERS

THE MILEAGE FOR ACCESS SERVICE IS THE AIRLINE DISTANCE MEASURED BETWEEN TWO SERVING WIRE CENTERS. THE TWO SERVING WIRE CENTERS MAY BE:

- THE CUSTOMER SERVING WIRE CENTER AND THE END USER SERVING WIRE CENTER
- THE CUSTOMER SERVING WIRE CENTER AND A HUB SERVING WIRE CENTER
- THE CUSTOMER SERVING WIRE CENTER AND A BRIDGING SERVING WIRE CENTER
- THE CUSTOMER OR END USER SERVING WIRE CENTER AND A WATS SERVING OFFICE
- A HUB SERVING WIRE CENTER (MULTIPLEXING, DA, DIGITAL DATA, BRIDGING, VIDEO AND PROGRAM AUDIO) AND A CUSTOMER END USER SERVING WIRE CENTER
- TWO CUSTOMER SERVING WIRE CENTERS
- THE CUSTOMER SERVING WIRE CENTER AND THE DA LOCATION

EACH SERVING WIRE CENTER HAS A UNIQUE SET OF VERTICAL AND HORIZONTAL (V&H) COORDINATES. THESE COORDINATES ARE USED FOR CALCULATING THE AIRLINE MILEAGE BETWEEN THE TWO SERVING WIRE CENTERS.

MILEAGE CALCULATIONS

MILEAGE IS CALCULATED AS FOLLOWS:

- USING THE LOCALITY NAME, AREA CODE (NPA) AND THE FIRST THREE DIGITS OF THE LOCAL EXCHANGE TELEPHONE NUMBER (NXX) OF EACH SERVING WIRE CENTER, LOOK UP THE V&H COORDINATES OF THE ASSOCIATED SERVING WIRE CENTER.
- OBTAIN THE DIFFERENCE BETWEEN THE V COORDINATES. THEN OBTAIN THE DIFFERENCE BETWEEN THE H COORDINATES. (THE DIFFERENCE IS ALWAYS OBTAINED BY SUBTRACTING THE SMALLER COORDINATE FROM THE LARGER COORDINATE).

Effective Date: January 1, 1990

Authorized by PSCW Order 05-TR-102 Letter

WIRE CENTER AND INTERCONNECTION INFORMATION

MILEAGE MEASUREMENT (CONT'D)

MILEAGE CALCULATIONS (CONT'D)

- SQUARE THE DIFFERENCES.
- ADD THE SQUARES OF THE TWO DIFFERENCES.
- DIVIDE THE SUM OF THE SQUARES BY 10.
- TAKE THE SQUARE ROOT OF THE RESULT OBTAINED IN THE PREVIOUS STEP. THE RESULTANT NUMBER IS THE AIRLINE MILEAGE BETWEEN THE WIRE CENTERS.

EXAMPLE

THE MILEAGE BETWEEN A CUSTOMER'S SERVING WIRE CENTER AT NEWARK (THE 02CG1 OFFICE), NEW JERSEY (TELEPHONE NUMBER 201-242-XXXX) AND AN END USER SERVING WIRE CENTER AT SUMMIT (THE SMC GO OFFICE), NEW JERSEY (TELEPHONE NUMBER 201-273-XXXX) IS DETERMINED AS FOLLOWS:

SERVING WIRE CENTER <u>LOCATION</u>	AREA <u>CODE</u> + <u>NXX</u>	SERVING WIRE CENTER <u>V</u>	SERVING WIRE CENTER <u>H</u>
NEWARK (THE 02CG1 OFFICE), NEW JERSEY	201 242	5016	1430
SUMMIT (THE SMC GO OFFICE), NEW JERSEY	201 273	5038	1453

- DIFFERENCES	<u>V</u>	<u>H</u>
	5038	1453
	-5016	-1430
	22	23

- DIFFERENCES SQUARED

(22) - 484
(23) - 529

- TOTAL OF DIFFERENCES

484
+529
1013

Effective Date: January 1, 1990

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WIRE CENTER AND INTERCONNECTION INFORMATION

MILEAGE MEASUREMENT

EXAMPLE (CONT'D)

- TOTAL OF DIFFERENCES DIVIDED BY 10

1013
10 - 101.3

- SQUARE ROOT OF 101.3 - 1-.0648

THE AIRLINE MILEAGE BETWEEN NEWARK (THE 02CG1 OFFICE), NEW JERSEY AND SUMMIT (THE SMCGO OFFICE), NEW JERSEY AS DETERMINED BY THIS METHOD IS 10.0548 MILES. THE USE OF THE AIRLINE MILEAGE AND ANY ROUNDING NECESSARY SHALL BE IN ACCORDANCE WITH THE APPROPRIATE SERVICE TARIFF WHERE RATES BASED ON AIRLINE MILEAGE ARE SPECIFIED.

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SERVING WIRE CENTER V AND H COORDINATE INFORMATION

LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
ABRAMS	ADMSWIXADSO	5464	3780	0925	350	ACGH KPe	414	826
ADAMS	ADMSWIXADSO	5745	3939	0886	354	AC	608	339
ALBANY	ALBYWIXA862	5961	3767	0963	354	ADGH	608	862
ALGOMA	ALGMWI11RSO	5451	3680	5220	350	ABDE FGHI KLMN Pehj o	414	487
ALLENTON	ALNTWIXA629	5744	3682	0886	356	ACGH KPe	414	629
ALMA	ALMAWIXA685	5820	4275	0958	354	ABC	608	685
ALMA CENTER	ALCTWIXARSO	5731	4144	0886	352	ADGH KPeo	715	964
ALMENA	ALMEWIXA357	5615	4393	0861	352	ABC	715	357
ALMOND	ALMDWIXADSO	5661	3916	0962	350	ABCHjo	715	366
AMBERG	AMBGWIXA759	5321	3847	0841	350	ABCHjo	715	759
AMERY	AMRYWIXADSO	5656	4427	0842	352	ABCHjo	715	268
AMHERST	AMHRWIXACGO	5615	3918	0843	350	A	715	824
ANTIGO	ANTGWIXADSO	5473	3969	0886	350	DGHK Pe	715	623
ANTIGO	ANTGWIXADSO	5473	3969	0886	350	ADGH KPbc dejo	715	627
APPLETON	APPLWIO161T	5588	3778	5220	350	A	414	428
APPLETON	APPLQIO161T	5588	3778	5220	350	A	414	585
APPLETON	APPLWIO1CGO	5588	3778	5220	350	ABDE FGHI KLMN OPHj lo	414	730
APPLETON	APPLWIO1CGO	5588	3778	5220	350	ABDE FGHI KLMN OPHj lo	414	731
APPLETON	APPLWIO1CGO	5588	3778	5220	350	ABDE FGHI KLMN OPHj lo	414	733

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APPLETON	APPLWIO1CGO	5588	3778	5220	350	ABDE FGHI KLMN OPhj lo	414	734
APPLETON	APPLWIO1CGO	5588	3778	5220	350	ABDE FGHI KLMN OPhj lo	414	735
APPLETON	APPLWIO1CGO	5588	3778	5220	350	ABDE FGHI KLMN OPhj lo	414	738
APPLETON	APPLWIO1CGO	5588	3778	5220	350	ABDE FGHI KLMN OPhj lo	414	739
APPLETON	APPLWIO1CGO	5588	3778	5220	350	ABDE GHIK LMNO Phj1 o	414	749
APPLETON	GNVLWI12RSO	5590	3799	5220	350	ABDE FGHI KLMN Phjo	414	757
APPLETON	APPLWIO1RSO	5588	3778	5220	350	ABD	414	832
APPLETON	APPLWIO161T	5588	3778	5220	350	ABi	414	954
ARCADIA	ARCDWIXARSO	5807	4209	0886	354	ADGH KPeo	608	323
ARENA	ARENWIXARSO	5908	3881	0886	354	ACGH KPe	608	753
ARGONNE	ARGNWIXA649	5354	3983	0870	350	A	715	649
ARGYLE	ARGYWIXA543	5994	3828	0886	354	ACGH KPe	608	543
ARKANSAS	ARKNWIXA285	5768	4320	0918	352	ABC	715	285

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SERVING WIRE CENTER V AND H COORDINATE INFORMATION

LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
ASHLAND	ASLDWIO1DS0	5310	4346	5220	352	ABCDE FGHI KLMN Phj1 o	715	682
ATHENS	ATHNWIXARSO	5556	4080	0886	350	DGHK Peo	715	257
AUBURNDALE	ABDLWIXA652	5629	4035	0859	350	ABC	715	652
AUGUSTA	AGSTWIXARSO	5698	4196	0886	352	DGHK Peo	715	286
AURORA	AURRWIXACGO	5272	3892	0920	342	ABCE	715	589
AVOCA	AVOCWIXA532	5934	3941	0922	354	FGH ABCE FGHI KLMN OPUV e	608	532
BAGLEY	BGLYWIXA996	6041	4026	0930	354	ABC	608	996
BAILEYS HARBOR	BGHRWIXARSO	5342	3684	0886	350	ADGH KPo	414	839
BALDWIN	BLDWWIXADSA	5725	4399	0846	352	GHKP	715	684
BALSAM LAKE	BLLKWIXARSO	5637	4455	0886	352	ACGH KP	715	485
BANGOR	BNGRWIXARSO	5842	4103	0886	354	ADGH KPo	608	486
BARABOO	BARBWIO1DS0	5836	3885	5220	354	ABDE FGHI KLMN Pehj	608	356
BARNES	BARNWIXA795	5398	4407	0860	352	A	715	795
BARRON	BRRNWIXARSO	5606	4366	0886	352	ACGH KPe	715	537
BAY CITY	BYCYWIXA594	5805	4375	0889	352	A	715	594
BAYFIELD	BYFDWI11779	5263	4359	5220	352	ABCE FGHI KLMN Peh	715	779

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SERVING WIRE CENTER V AND H COORDINATE INFORMATION

LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
BEAR CREEK	BRCKWIXA752			0964	350	ABCE GHJh ijlo r	715	752
BEAVER DAM	BVDMWIO1DSO	5774	3757	5220	356	ABDE FGHI KLMN Pehj lo	414	885
BEAVER DAM	BVDMWIO1DSO	5774	3757	5220	356	ABDE FGHI KLMN OPhj lo	414	887
BEETOWN	BETWIXA794	6049	3998	0880	354	ABChjo	608	794
BELGIUM	BLGMWIXARSO	5693	3621	0886	356	ACGH KPe	414	285
BELLEVILLE	BLVLWIXA424	5938	3796	0886	354	ACGH KP	608	424
BELMONT	BLMTWIXA762	6020	3899	0847	354	ABChjo	608	762
BELOIT	BELTWIO1CGO	5970	3688	5220	354	ABDE FGHI KLMN Pehj o	608	362
BELOIT	BELTWIO1CGO	5970	3688	5220	354	ABDE FGHI KLMN OPeh jo	608	364
BELOIT	BELTWIO1CGO	5970	3688	5220	354	ABDE FGHI KLMN OPeh jo	608	365
BENNETT	BNNTWIXA375	5400	4463	0950	352	C	715	375

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
BENOIT	BNITWIXA746	5340	4364	0860	352	ABCE FGHI KLMN Peh	715	746
BENTON	BNTNWIXA759	6056	3890	0886	354	ACGH KPe	608	759
BERGEN	BRGNWIXA296	5960	3665	0848	356	ABChjo	414	296
BERLIN	BRLNWIO1DSO	5683	3823	5220	350	ABDE FGHI KLMN Peho	414	361
BIG BEND	BGBNW111CGO	5837	3609	5220	356	ABDE FGHI KLMN Pehj o	414	662
BIRCHWOOD	BHWDWIXARSO	5542	4342	0886	352	ADGH KPeo	715	354
BIRNAMWOOD	BRWDWIXARSO	5517	3955	0886	350	DGHK Peo	715	449
BLACK CREEK	BLCKWIXA984	5550	3805	0886	350	ACGH KP	414	984
BLACK EARTH	BLERWIXA767	5902	3854	0849	354	ABC	608	767
BLACK RIVER FALLS	BRFLWIXADSO	5754	4122	0886	352	ADGH KPej o	715	284
BLAIR	BLARWIXA989	5781	4176	0886	354	ACGH KPe	608	989
BLANCHARDVILLE	BNVLWIXA523	5971	3838	0963	354	ADGH	608	523
BLOOM CITY	BLCYWIXA549	5883	3991	0886	354	ACGH KPe	608	549
BLOOMER	BLMRWIXACGO	5639	4288	0850	352	ABC	715	568
BLOOMINGTON	BLTNWIXA994	6033	3997	0930	354	ABC	608	994
BLUE RIVER	BLRVWIXA537	5950	3975	0942	354	ABDhjo o	608	537
BOAZ	BOAZWIXA536	5918	3984	0942	354	ABDhjo	608	536
BOHNERS LAKE	BHLKWIXA539	5892	3596	0856	356	ABCj o	414	539
BONDUEL	BNDLWIXA758	5501	3830	0851	350	ABC	715	758

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BOSCOBEL	BOSCWIXADSO	5970	3990	0922	354	ABCE FGHI KLMN OPUV eijo	608	375
BOULDER JUNCTION	BLJTWIXA385	5319	4132	0956	350	C	715	385
BOWLER	BWLRWIXA793	5513	3917	0964	350	ABCE GHJh ijlo r	715	793
BOYCEVILLE	BYVLWIXARSO	5688	4360	0886	352	ACGH KPe	715	643
BOYD	BOYDWIXA667	5639	4212	0922	352	ACEF GHIK LMNO PUVe	715	667
BRANDON	BRNDWIXA346	5717	3777	0877	356	ABC	414	346
BRANTWOOD	BNWDWIXA564	5460	4139	0956	350	C	715	564
BRIGGSVILLE	BRGVWIXA981	5791	3881	0886	34	ACGH KPe	608	981
BRILLION	BLLNWIXA756	5580	3721	0886	356	ACGH KPe	414	756
BRISTOL	BRSTWIXADSO	5887	3551	0886	356	ACGH KPe	414	857
BRODHEAD	BRHDWIXA897	5974	3749	0886	354	ACGH KPe	608	897
BROOKLYN	BRKLWIXARSO	5929	3772	0886	354	ADGH KPo	608	455
BROOKS	BRKSWIXA584	5762	3906	0908	354	BC	608	584
BROWNTOWN	BWTWWIXA966	6013	3805	0963	354	ADGH	608	966
BRUCE	BRUCWIXADSO	5554	4292	0855	352	ABChjo	715	868
BRUSSELS	BRSLWIXA825	5442	3716	0884	350	CEFG	414	825
BURLINGTON	BURLWI11RSO	5882	3599	5220	356	ABDE FGHI KLMN Pehj o	414	763

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
BURNETT	BVDMWIO1689	5774	3757	5220	356	ABCE FGHI KLMN Phjo	414	689
BUTTERNUT	BTRNWIXARSO	5396	4238	0886	352	ADGH KPeo	715	769
CABLE	CABLWIXADSO	5412	4367	0860	352	A	715	798
CADOTT	CDOTWIXA289	5648	4227	0922	352	ACEF GHIK LMNO PUVe	715	289
CALEDONIA	CLDNWI14CGO	5831	3562	5220	356	ABDE FGHI KLMN Pehj o	414	835
CAMBRIA	CMBAWIXARSO	5777	3803	0931	356	ABC	414	348
CAMBRIDGE	CMBRWIXA423	5874	3737	0886	354	ACGH KPe	608	423
CAMERON	CMRNWIXA458	5597	4352	0861	352	ABC	715	458
CAMP DOUGLAS	CPDGWIXACGO	5787	4004	0900	354	ABC	608	427
CAMPBELLSPORT	CMPTWIXADSO	5706	3691	0886	356	ACGH KPej o	414	533
CANTON	CNTNWIXA859	5586	4342	0863	352	ABCE FGH	715	859
CASCADE	CSCDWIXA528	5672	3659	0886	356	ACGH KPe	414	528
CASCO	CASCWIXA837	5476	3698	0857	350	ABCE FGHj o	414	837
CASHTON	CSTNWIXA38A	5857	4060	0913	354	C	608	654
CASSVILLE	CSVLWIXA725	6071	3992	0880	354	ABChjo	608	725
CATARACT	CTRCWIXA272	5794	4103	0913	354	C	608	272
CAZENOVIA	CZNVWIXA983	5858	3955	0899	354	ABDhjox	608	983
CECIL	CECLWIXADSO	5487	3839	0858	350	ABCE FGHj o	715	745

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
CEDAR GROVE	CDGVWIXA668	5678	3625	0886	356	ACGH KPe	414	668
CEDARBURG	CDBGWI15DSO	5743	3621	5220	356	ABDE FGHI KLMN Phj1 o	414	675
CEDARBURG	CDBGWI15DSO	5743	3621	5220	356	ABDE FGHI KLMN OPhj lo	414	377
CENTERVILLE	CNVLWIXARSO	5839	4185	0886	354	ADGH KPeo	608	539
CENTURIA	CENTWIXA646	5642	4469	0886	352	ACGH KP	715	646
CHASEBURG	CSBGWIXA483	5895	4097	0868	354	ABCE FGH	608	483
CHETEK	CHTKWIXADSO	5609	4331	0922	352	ABCE FGHI KLMN OPUV ejo	715	924
CHILI	CHILWIXA683	5656	4084	0844	350	ABC	715	683
CHILTON	CITNWIXARSO	5615	3720	0886	356	ADGH KPeo	414	849
CHIPPEWA FALLS	CHFLWI11DSO	5666	4259	5220	352	ABDE FGHI KLMN Pehj o	715	723
CHIPPEWA FALLS	CHFLWI11DSO	5666	4259	5220	352	ABDE FGHI KLMN OPeh jo	715	726
CLAYTON	CYTNWIXA948	5640	4404	0842	352	ABChjo	715	948
CLEAR LAKE	CLLKWIXACGO	5662	4409	0865	352	ABChjo	715	263

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
CLEGHORN	CLGHWIXA878	5718	4240	0886	352	ACGH KPe	715	878
CLEVELAND	CLEVWIXA693	5606	3651	0914	356	ABCj o	414	693
CLINTON	CLTNWIXA676	5949	3670	0886	354	ACGH KP	608	676
CLINTONVILLE	CIVLWIXA823	5544	3863	0964	350	ABCE GHJh ijlo r	715	823
CLOVERTON, NM	DRLDWIXA242	5482	4490	0950	352	C	612	242
CLYMAN	CLYMIXA696	5794	3726	0886	356	ACGH KP	414	696
COBB	COBBWIXA623	5974	3918	0886	354	ACGH KPej E	608	623
COCHRANE	CCHRWIXA248	5833	4255	0886	354	ABCE FGHi jo	608	248
COLBY	CLBYWIXARSO	5597	4107	0886	350	ADGH KPe	715	223
COLEMAN	CLMNWIXACGO	5408	3808	0841	350	ABChjo	414	897
COLFAX	CLFXWIXADSO	5677	4312	0886	352	ACGH KPej o	715	962
COLLINS	CLNSWIXA772	5590	3701	0965	356	ABC	414	772
COLOMA	COLMWIXA228	5710	3910	0962	350	ABChjo	715	228
COLUMBUS	CLMBWI11RSO	5810	3770	5220	356	ABDE FGHI KLMN Pehj o	414	623
COON VALLEY	COVYWIXA452	5881	4088	0868	354	ABCE FGHi jo	608	452
CORNELL	CRNLWI12CGO	5605	4247	5220	352	ACEF GHIK LMNP eh	715	239

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
CORNUCOPIA	CNPAWIXA742	5274	4401	0860	352	ABCE FGHI KLMN Peh	715	742
COTTAGE GROVE	CTGVWIXADSO	5882	3788	0886	354	ACGH KPe	608	839
CRANDON	CRNDWIXA478	5373	3977	0870	350	A	715	478
CRESCENT LAKE	CRLKWIXADSO	5410	4069	0940	350	A	715	282
CRIVITZ	CRVTWIXA854	5373	3821	0841	350	ABChjo	715	854
CROSS PLAINS	CRPLWIXA798	5899	3837	0881	354	ABDE GHfj	608	798
CUBA CITY	CBCYWIXA744	6052	3900	0872	354	ABChjo	608	744
CUMBERLAND	CMLDWIXA822	5591	4402	0841	352	ABChjo	715	822
CUSHING	CSNGWIXA648	5625	4493	0902	352	ABC	715	648
DAIRYLAND	DRLDWIXA244	5482	4490	0950	352	C	715	244
DALLAS	DLLSWIXA837	5631	4348	0861	352	ABC	715	837
DANBURY	DNBRWIXADSA	5520	4494	0950	352	C	715	656
DARIEN	DARNWIXA724	5929	3682	0886	356	ACGH KPe	414	724
DARLINGTON	DRTNWIXA776	6016	3862	0886	654	ACGH KPe	608	776
DE FOREST	DFRSWIXADSO	5850	3808	0922	354	ABCE FGHI KLMN OPUV eijs	608	846
DE PERE	DEPRWI11CGO	5527	3747	5220	350	ABDE FGHI KLMN Pehj o	414	336
DE PERE	DEPRWI11CGO	5527	3747	5220	350	ABDE GHIK LMNO Pehj o	414	337
DE SOTO	DESTWIXA648	5948	4088	0966	354	A	608	648
DEER PARK	DRPKWIXA269	5681	4421	0842	352	ABChjo	715	269

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NYX
DEERFIELD	DRFDWIXA764	5870	3749	0886	354	ACGH KPe	608	764
DELAFIELD	DLFDWIXADSO	5818	3655	0922	356	ABCE FGHI KLMN OPUV e	414	646
DELAVAN	DLVNWII1RSO	5918	3644	5220	356	ABDE FGHI KLMN Pehj o	414	728
DENMARK	DNMKWIXA863	5529	3706	0886	350	ACGH KPe	414	863
DICKEYVILLE	DCVLWIXA568	6060	3935	0875	354	ACf	608	568
DODGEVILLE	DGVLWIXADSO	5963	3892	0886	354	ADGH KPej o	608	935
DORCHESTER	DRCHWIXA654	5580	4119	0909	650	ABC	715	654
DOUSMAN	DSMNWIXA965	5833	3660	0922	356	ACEF GHIK LMNO PUVe	414	965
DOWNSVILLE	DSVLWIXA664	5733	4320	0971	352	ADhjo DRESSER	715	664
OSCLWIXA29A	5674	4471	0950	352	C	715	755	
DRUMMOND	DRMDWIXA739	5384	4373	0860	352	A	715	739
DURAND	DRNDWIXADSO	5764	4310	0971	352	ABCE FGHi jo	715	672
EAGLE	EAGLWIXA594	5858	3647	0922	356	ACEF GHIK LMNO PUVe	414	594
EAGLE POINT	EGPTWIXA288	5649	4267	0956	352	C	715	288
EAGLE RIVER	EGRVWIXADSO	5330	4059	0886	350	ACGH KPbc deo	715	479

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
EAST TROY	ETRYWIXA642	5872	3628	0922	356	ACEF GHIK LMNO PUVe	414	642
EASTMAN	ESMNWIXA874	5984	4038	0886	354	ACGH KP	608	874
EAU CLAIRE	EUCLWIO161T	5697	4262	5220	352	i	715	556
EAU CLAIRE	EUCLWIO161T	5697	4262	5220	352	i	715	577
EAU CLAIRE	EUCLWIO1CGO	5697	4262	5220	352	ABDE FGHI KLMN Phj1 o	715	832
EAU CLAIRE	EUCLWIO1CGO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	833
EAU CLAIRE	EUCLWIO1CGO	5697	4262	5220	352	ABDE GHIK LMNO Phj1 o	715	834
EAU CLAIRE	EUCLWIO1CGO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	835
EAU CLAIRE (0000-1999)	EUCLWIO1CGO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	836
EAU CLAIRE (0000-2299)	EUCLWIO1CGO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	839

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EAU CLAIRE (2000-2329)	EUCLWIO1DSO	5697	4262	5220	352	ABDE GHIK LMNO Phj1 o	715	836
EAU CLAIRE (2300-2399)	EUCLWIO1DSO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	839
EAU CLAIRE (2330-2339)	EUCLWIO1CGO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	836
EAU CLAIRE (2340-6199)	EUCLWIO1DSO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	836
EAU CLAIRE (2400-2799)	EUCLWIO1CGO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	839
EAU CLAIRE (2800-2999)	EUCLWIO1DSO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	839
EAU CLAIRE (3000-3699)	EUCLWIO1CGO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	839
EAU CLAIRE (3700-3899)	EUCLWIO1DSO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	839

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EAU CLAIRE (3900-4699)	EUCLWIO1CGO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	839
EAU CLAIRE (4700-5199)	EUCLWIO1DSO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	839
EAU CLAIRE (5200-5999)	EUCLWIO1CGO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	839
EAU CLAIRE (6000-6299)	EUCLWIO1DSO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	839
EAU CLAIRE (6200-9999)	EUCLWIO1CGO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	836
EAU CLAIRE (6300-9999)	EUCLWIO1CGO	5697	4262	5220	352	ABDE FGHI KLMN OPhj lo	715	839
EAU GALLE	EUGLWIXA283	5754	4324	0971	352	ABDhjoX EDEN	715	283
EDENWIXARSO	5697 3714 0886	356	ACGH	414	477	KPej ACGH	715	352
EDGAR	EDGRWIXA352	5571	4059	0886	350	KPe ACGH	608	884
EDGERTON	EGTNWIXA884	5911	3727	0886	354	KPe		

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
EGG HARBOR	EGHRWIXARSO	5347	3703	0886	350	ADGH KPo	414	868
ELCHO	ELCHWIXA275	5418	4001	0891	350	A	715	275
ELDERON	ELDRWIXA454	5547	3944	0973	350	ABChjo	715	454
ELEVA	ELEVWIXA287	5741	4235	0960	352	ABChjo	715	287
ELK LAKE	EKLKWIXA874	5705	4285	0971	352	ABDhijox	715	874
ELK LAKE	EKLKWIXB876	5696	4277	0971	352	ABDhijox	715	876
ELK MOUND	EKMDWIXARSO	5698	4295	0886	352	ACGH KPe	715	879
ELKHART LAKE	ELLKWIXA876	5642	3680	0886	356	ACGH KPe	414	876
ELKHORN	ELKHWIXBDSO	5903	3636	0955	356	AC1	414	723
ELKHORN	ELKHWIXBDSO	5903	3636	0955	356	AC1	414	741
ELKHORN	ELKHWIXCCGO	5892	3643	0955	356	AC	414	742
ELLSWORTH	ELWOWI11RSO	5778	4394	5220	352	ABDE FGHI KLMN Pehj o	715	273
ELMWOOD	EMWDWIXADSO	5747	4350	0886	352	ACGH KPej o	715	639
ELROY	ELRYWIXA462	5821	3987	0922	354	ACEF GHIK LMNO PUVe	608	462
ENDEAVOR	ENDVWIXA587	5769	3871	0908	354	BC	608	587
ETTRICK	ETRCWIXARSO	5807	4169	0886	354	ACDG HKPe	608	525
EVANSVILLE	EVVLWI11CGO	5938	3755	5220	354	ABEF GHIK LMNP eh	608	882
EXELAND	EXLDWIXA943	5512	4307	0936	352	ABCE FGH	715	943
FAIR PLAY	EDBQILXS748	6090	3921	1036	634	C	608	748
FAIRCHILD	FRCHWIXA334	5702	4168	0886	352	ACGH KPe	71	334

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FALL CREEK	FLCKWIXA877	5692	4226	0886	352	ACGH KPe	715	877
FALL RIVER	FLRVWIXARSO	5804	3779	0931	356	ABC	414	484
FALUN	FALNWIXA689	5577	4496	0879	359	ABC	715	689
FENNIMORE	FNMWRWIXA822	5995	3968	0882	354	ABC	608	822
FLORENCE	FLRNWIXACGO	5259	3925	0920	342	ABCE FGH	715	528
FOND DU LAC	FDULWIO1CGO	5684	3734	5220	356	ABDE FGHI KLMN Phjl o	414	921
FOND DU LAC	FDULWIO1CGO	5684	3734	5220	356	ABDE FGHI KLMN OPhj lo	414	922
FOND DU LAC	FDULWIO1CGO	5684	3734	5220	356	ABDE FGHI KLMN OPhj lo	414	923
FOND DU LAC	FDULWIO1CGO	5684	3734	5220	356	ABDE FGHI KLMN OPhj lo	414	929
FOOTVILLE	FTVLWIXA876	5952	3731	0883	354	ACEF GHK LMNO PUVe	608	876
FORESTVILLE	FSVLWIXA856	5440	3692	0884	350	C	414	856
FORT ATKINSON	FTATWII1RSO	5876	3703	5220	356	ABDE FGHI KLMN Pehj o	414	563
FORT MCCOY	FTMCWIXA388	5820	4083	0913	354	C	608	388

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FOUNTAIN CITY	FNCYWIXARSO	5845	4229	0886	354	ADGH KPeo	608	687
FOX CREEK	FXCKWIXA857	5621	4441	0910	352	ABCE FGH	715	857
FOX LAKE	FXLKWIXARSO	5760	3777	0931	356	ABC	414	928
FREDERIC	FRDRWIXACGO	5595	4476	0950	352	CGH	715	327
FREMONT	FRMTWIXA446	5622	3841	0841	350	ABCh jo	414	446
GALESVILLE	GLVLWIXARSO	5829	4173	0886	354	ADGH KPeo	608	582
GAYS MILLS	GYMLWIXA735	5944	4029	0942	354	ABDh jox	608	735
GENESEE	GENSWIXADSO	5834	3641	0922	356	ABCE FGHI KLMN OPUV e	414	968
GENOA	GENOWIXA689	5920	4107	0966	354	A	608	689
GENOA CITY	GNCYWI12CGO	5920	3589	5220	356	ABCE FGHI KLMN Peh	414	279
GILLET	GLLTWIXA855	5461	3827	0886	350	ACGH KP	414	855
GILMAN	GLMNWIXA447	5582	4200	0956	352	C	715	447
GILMANTON	GLTNWIXA946	5776	4255	0918	352	ABC	715	946
GLEASON	GLSNWIXA873	5464	4032	0956	350	C	715	873
GLEN FLORA	GLFLWIXA322	5523	4243	0956	352	C	715	322
GLENWOOD CITY	GLCYWIXA265	5694	4379	0886	352	ACGH KPj	715	265
GLIDDEN	GLDNWIXARSO	5378	4261	0886	352	ADGH KPeo	715	264
GOODMAN	GDMNWIXA336	5322	3910	0841	342	ABCh jo	715	336
GORDON	GRDNWIXA376	5438	4438	0950	352	C	715	376
GRANDVIEW	FDVWIXA763	5369	4357	0860	352	A	715	763
GRANTON	GNTNWIXA238	5369	4357	0844	350	ABC	715	238
GRANTSBURG	GRBGWIXA463	5586	4517	0879	352	ABC	715	463
GRATIOT	GRATWIXA922	6029	3839	0886	354	ACGH KPe	608	922

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
GREEN BAY	GNBYWIO1CGO	5512	3749	5220	350	ABDE FGHI KLMN PQeh jl	414	431
GREEN BAY	GNBYWIO1CGO	5512	3749	5220	350	ABDE FGHI KLMN PQeh jlo	414	432
GREEN BAY	GNBYWIO1CGO	5512	3749	5220	350	ABDE FGHI KLMN OPeh jlo	414	433
GREEN BAY	GNBYWIO1CGO	5512	3749	5220	350	ABDE FGHI KLMN PQeh jlo	414	435
GREEN BAY	GNVYWIO1CGO	5512	3749	5220	350	ABDE FGHI KLMN PQfh jl	414	436
GREEN BAY	GNBYWIO1CGO	5512	3749	5220	350	ABDE FGHI KLMN PQeh jlo	414	437
GREEN BAY	GNBYWIO1CGO	5512	3749	5220	350	ABDE FGHI KLMN PQeh jlo	414	455
GREEN BAY	GNBYWI12CGO	5511	3742	5220	350	ABDE FGHI KLMN Pehj o	414	465

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GREEN BAY	GNBYWI12CGO	5511	3742	5220	350	ABDE FGHI KLMN Pehj o	414	468
GREEN BAY	GNBYWI12CGO	5511	3742	5220	350	ABDE FGHI KLMN Pehj lo	414	469
GREEN BAY	GNBYWI11CGO	5513	3755	5220	350	ABDE FGHI KLMN PQeh jo	414	494
GREEN BAY	GNBYWI11CGO	5513	3755	5220	350	ABDE FGHI KLMN PQeh jo	414	496
GREEN BAY	GNBYWI11CGO	513	3755	5220	350	ABDE FGHI KLMN PQeh jo	414	497
GREEN BAY	GNBYWI11CGO	5513	3755	5220	350	ABDE GHIK LMNP Qehj o	414	498
GREEN BAY	GNBYWI11CGO	5513	3755	5220	350	ABDE FGHI KLMN PQeh jo	414	499
GREEN BAY	GNBYWIO161T	5512	3749	5220	350	AB	414	556
GREEN BAY	GNBYWIO161T	5512	3749	5220	350	AB	414	621
GREEN BAY	GNBYWIO161T	5512	3749	5220	350	A	414	665
GREEN BAY	GNBYWIO161T	5512	3749	5220	350	AB1	414	952

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
GREEN LAKE	GNLKW111DSO	5708	3812	5220	350	ABDG HIKL MNPe ho	414	294
GREENBUSH	GNBSWIXA526	5658	3683	0886	356	ACGH KPe	414	526
GREENWOOD	GNWDWIXA267	5645	4132	0844	350	ABC	715	267
GRESHAM	GRHMWIXA787	5503	3889	0964	350	ABCE GHJh ijlo r	715	787
HAGER CITY	HGCRYWIXA792	5807	4388	0889	352	A	715	792
HAMMOND	HMNDWIXA796	5727	4408	0950	352	C	715	796
HANCOCK	HNCCWIXA249	5693	3919	0962	350	ABCh jo	715	249
HARMONY	HRMYWIXA789	5383	3784	0841	350	ABCh jo	715	789
HARTFORD	HRFRW111RSO	5767	3678	5220	356	ABEF GHIK LMNP ehjo	414	673
HARTLAND	HRLDW111CGO	5800	3654	5220	356	ABDE FGHI KLMN Pehj o	414	367
HATLEY	HTLYWIXARSO	5536	3969	0886	350	ADGH KPeo	715	446
HAWKINS	HWKNWIXA585	5508	4221	0956	352	C	715	585
HAYWARD	HYWRWIXADSO	5462	4374	0886	352	ACGH KPbc dejo	715	634
HAZEL GREEN	HZGRWIXA854	6067	3894	0934	354	ACf	608	854
HIGHLAND	HGLDWIXA929	5964	3935	0922	354	ABCE FGHI KLMN OPUV	608	929
	HLBRWIXA853	5595	3731	0886	356	ACGH KPe	414	853
HILLSBORO	HLBOWIXA489	5844	3988	0892	354	ABC	608	489

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	XXX
HIXTON	HXTNWIXARSO	5764	4146	0886	352	ADGH KPeo	715	963
HOLCOMBE	HLCMWIXA595	5591	4248	0956	352	C	715	595
HOLLANDALE	HODLWIXARSO	5964	3853	0886	354	ADGH KPeo	608	967
HOLMEN	HLMNWIXADSO	5846	4148	0886	354	ADGH KPej o	608	526
HORICON	HRCNW111RSO	5760	3727	5220	256	ABDE FGHI KLMN Pehj o	414	485
HORTONVILLE	HOVLW112RSO	5591	3817	5220	350	ABDE FGHI KLMN Pehj o	414	779
HOULTON	HLTNW111RSO	5733	4464	5220	352	ABDE FGHI KLMN Peh	715	549
HOWARDS GROVE	HWGVWIXA565	5627	3652	0914	356	ABC	414	565
HUBERTUS	HBTSW111CGO	5770	3645	5220	356	ABDE FGHI KLMN Peh	414	628
HUDSON	HDSNW101CGO	5748	4454	5220	352	ABDE FGHI KLMN Phjl o	715	386
HURLEY	HRLYW111MGO	5291	4238	5220	352	ABCE FGHI KLMN Peh	715	561
HURLEY	SAXNW111893	5297	4272	5220	352	ABCE FGHI KLMN Peh	715	893

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
HUSTISFORD	HSFDWIXA349	5778	3712	0886	356	ACGH KPe	414	349
INDEPENDENCE	INDPWIXA985	5781	4209	0960	352	ABChjo	715	985
IOLA	IOLAWIXA445	5594	3900	0945	350	ABCj	715	445
IRON RIVER	IRRVWIXADSA	5352	4416	0860	352	A	715	372
ITHACA	ITHCWIXA585	5900	3950	0886	354	ACGH KP	608	585
JACKSON	JCSNW11677	5750	3649	5220	356	ABCE FGHI KLMN Peh	414	677
JACKSONPORT	JCPTWIXA823	5363	3684	0886	350	ACGH KPe	414	823
JANESVILLE	MDSNW1161T	5888	3796	5220	354	i	608	751
JANESVILLE	JNVLW101CGO	5936	3705	5220	354	ABDE FGHI KLMN Pehj	608	752
JANESVILLE	JNVLW101CGO	5936	3705	5220	354	o ABDE FGHI KLMN Pehj	608	754
JANESVILLE	JNVLW101CGO	5936	3705	5220	354	o ABDE FGHI KLMN Pehj	608	755
JANESVILLE	JNVLW101CGO	5936	3705	5220	354	o ABDE FGHI KLMN Pehj	608	756
JANESVILLE	JNVLW101CGO	5936	3705	5220	354	o ABDE FGHI KLMN Pehj o	608	757

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NX
JANESVILLE	MDSNW1161T	5888	3796	5220	354	i	608	774
JEFFERSON	JFSNW111RSO	5859	3707	5220	356	ABDe jo	414	674
JIM FALLS	JMFLWIXA382	5635	4252	0956	352	C	715	382
JOHNSBURG	JHBGWIXARSO	5654	3722	0886	356	ACDG HKPe	414	795
HOHNSON CREEK	JHCKWIXA699	5841	3710	0943	356	ABDS jo	414	699
JUDA	JUDAWIXA934	5989	3766	0963	354	ADGH	608	934
JUMP RIVER	JMRVWIXA668	5545	4215	0956	352	C	715	668
JUNCTION CITY	JNCYWIXA457	5620	3997	0859	350	ABC	715	457
JUNEAU	JUNEW111RSO	5774	3733	5220	356	ABDE FGHI KLMN Pehj o	414	386
KAUKAUNA	KAUKW111RSO	5574	3760	5220	350	ABDE FGHI KLMN Pehj o	414	766
KENDALL	KENDWIXA463	5818	4005	0924	354	ABCh jo	608	463
KENNAN	KENNWIXA474	5496	4204	0956	352	C	715	474
KENOSHA	PRSDW111551	5852	3535	5220	356	ABDE FGHI KLMN Pehj o	414	551
KENOSHA	KENOWIO1CGO	5867	3524	5220	356	ABDE FGHI KLMN Pehj o	414	652
KENOSHA	KENOWIO1CGO	5867	3524	5220	356	ABDE FGHI KLMN Pehj o	414	654

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
KENOSHA	KENOWIO1CGO	5867	3524	5220	356	ABDE FGHI KLMN Phjl o	414	656
KENOSHA	KENOWIO1CGO	5867	3524	5220	356	ABDE FGHI KLMN Phjl o	414	657
KENOSHA	KENOWIO1CGO	5867	3524	5220	356	ABDE FGHI KLMN Phjl o	414	658
KENOSHA	KENOWI11CGO	5875	3526	5220	356	ABDE FGHI KLMN Pehj o	414	694
KENOSHA	KENOWI11CGO	5875	3526	5220	356	ABDE FGHI KLMN Pehj o	414	697
KENOSHA	MILWWI1261T	5792	3596	5220	356	i	414	945
KENOSHA	KENOWIO1CGO	5867	3524	5220	356	ABDE FGHI KLMN Pehj o	414	947
KESHENA	KSHNWIXA799	5485	3872	0964	350	ABCE GHJh ijlo r	715	799
KEWASKUM	KWSKWIXA626	5717	3677	0886	356	ACGH KPe	414	626

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KEWAUNEE	KEWNW11RSO	5485	3673	5220	350	ABDE FGHI KLMN Pehj o	414	388
KIEL	KIELWIXARSO	5628	3691	0886	356	ADGH KPeo	414	894
KINGSTON	KGTNWIXARSO	5750	3823	0886	356	ACGH KPe	414	394
KNAPP	KNAPWIXARSO	5709	4358	0886	352	ACGH KPe	715	665
KRAKOW	KRKWWIXAMGO	5482	3807	0938	350	ABChjo	414	899
LA CROSSE	LCRSWIXB78A	5877	4123	0895	354	Ce	608	780
LA CROSSE	LCRSWIXA78A	5860	4137	0895	354	AC	608	781
LA CROSSE	LCRSWIXC78A	5876	4133	0895	354	ABCE FGHI KLMN Pbij	608	782
LA CROSSE	LCRSWIXA78A	5860	4137	0895	354	C	608	783
LA CROSSE	LCRSWIXC78A	5876	4133	0895	354	ACEF GHIK LMNP bij	608	784
LA CROSSE	LCRSWIXC78A	5876	4133	0895	354	ACEF GHIK LMNP bij	608	785
LA CROSSE	LCRSWIXC78A	5876	4133	0895	354	C	608	787
LA CROSSE	LCRSWIXB78A	5877	4123	0895	354	C	608	788
LA CROSSE	LCRSWIXC78A	5876	4133	0895	354	C	608	789
LA CROSSE	LCRSWIXB78A	5877	4123	0895	354	Ce	608	792
LA FARGE	LAFRWIXA625	5879	4022	0966	354	A	608	625
LA POINTE	LAPNWIXA747	5267	4353	0904	352	C	715	747
LA VALLE	LAVAWIXA985	5842	3951	0899	354	ABDhjox	608	985
LAC DE FLAMBEAU	LDUFWIXARSO	5363	4152	0886	350	ADGH KPWX Y	715	588
LADYSMITH	LDYSW11CGO	5544	4269	5220	352	ACEF GHIK LMNP ehj	715	532

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
LAKE GENEVA	LKGNWIO1CGO	5909	3611	5220	356	ABDE FGHI KLMN Phj1 o	414	248
LAKE GENEVA	LKGNWIO1CGO	5909	3611	5220	356	ABDE FGHI KLMN Phj1 o	414	249
LAKE MILLS	LKMLWIXA648	5852	3729	0886	356	ACGH KPe	414	648
LAKE NEBAGAMON	LKNBWIXA374	5384	4454	0950	352	C	715	374
LAKE TOMAHAWK	LKTMWIXACGO	5373	4096	0891	350	A	715	277
LAKEWOOD	LKWDWIXADSO	5408	3892	0886	350	ADGH KPjo	715	276
LANCASTER	LNCSWIXA723	6025	3964	0880	354	ABCh jo	608	723
LAND O'LAKES	LNLKWIXARSO	5281	4080	0886	350	ACGH KPe	715	547
LAONA	LAONWIXADSO	5358	3946	0886	350	ACGH KPe	715	674
LARSEN	LRSNWIXACGO	5616	3801	0898	350	C	414	836
LEBANON	LBNNWIXA925	5796	3707	0886	356	ACGH KPe	414	925
LENA	LENAWIXARSO	5431	3798	0841	350	C	414	829
LEWIS	KEWSWIXA653	5581	4471	0950	352	C	715	653
LIBERTY POLE	LBPLWIXA675	5916	4054	0966	354	A	608	675
LIME RIDGE	LMRGWIXA986	5866	3944	0886	354	ACGH KP	608	986
LINDSEY	LNDSWIXA676	5666	4068	0859	350	ABC	715	676
LITTLE CHUTE	LCHTWI11788	5579	3766	5220	350	ABDE FGHI KLMN Pehj o	414	788
LITTLE STURGEON	LTSTWIXA824	5421	3718	0884	350	C	414	824
LODI	LODIWIXARSO	5851	3840	0886	354	ADGH KPo	608	592

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
LOGANVILLE	LGVLWIXARSO	5863	3924	0886	354	ADGH	608	727
LOMIRA	LOMRWIXARSO	5720	3714	0886	356	KPo ACGH	414	269
LONE ROCK	LNRKWIXARSO	5924	3922	0886	354	KPe ACGH	608	583
LONG LAKE	LGLKWIXA967	5609	4297	0863	352	KPe ABCE	715	967
LOYAL	LOYLWIXA255	5644	4115	0886	350	FGH ACGH	715	255
LUCK	LUCKWIXA472	5612	4469	0902	352	KPe ABCE	715	472
LUXEMBURG	LXBGWIXA845	5484	3709	0886	350	FGHj o ACGH	414	845
LYNDON STATION	LYSTWIXARSO	5801	3932	0886	354	KP ACGH	608	666
MADISON	MDSNWI14CGO	5884	3783	5220	354	KPe ABDE	608	221
MADISON	MDSNWI14CGO	5884	3783	5220	354	FGHI KLMN Pehj o ABDE	608	222
MADISON	MDSNWI14CGO	5884	3783	5220	354	FGHI KLMN Pehj o ABDE	608	223
MADISON	MDSNWI13CGO	5892	3803	5220	354	FGHI KLMN Pehj o ABDE	608	231

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MADISON	MDSNWI13CGO	5892	3803	5220	354	ABDE FGHI KLMN Pehj o	608	233
MADISON	MDSNWI13CGO	5892	3803	5220	654	ABDE FGHI KLMN Pehj o	608	238
MADISON	MDSNWI12CGO	5879	3803	5220	354	ABDE FGHI KLMN Pehj o	608	241
MADISON	MDSNWI12CGO	5879	3793	5220	354	ABDE FGHI KLMN Pehj o	608	242
MADISON	MDSNWI12CGO	5879	3793	5220	354	ABDE FGHI KLMN Pehj o	608	244
MADISON	MDSNWI12CGO	5879	3793	5220	354	ABDE FGHI KLMN Pehj o	608	246
MADISON	MDSNWI12CGO	5879	3793	5220	354	ABDE FGHI KLMN Pehj o	608	249
MADISON	MDSNWI11CGO	5888	3796	5220	354	ABDE FGHI KLMN OPQh jlo	608	251

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MADISON	MDSNWI11CGO	5888	3796	5220	354	ABDE FGHI KLMN OPQh jlo	608	252
MADISON	MDSNWI11CGO	5888	3796	5220	354	ABDE FGHI KLMN OPQh jlo	608	255
MADISON	MDSNWI11CGO	5888	3796	5220	354	ABDE FGHI KLMN OPQh jlo	608	256
MADISON	MDSNWI11CGO	5888	3796	5220	354	ABDE FGHI KLMN OPQh jlo	608	257
MADISON	MDSNWI11CGO	5888	3796	5220	354	ABDE FGHI KLMN OPQh jlo	608	258
MADISON	MDSNWI15DSO	5890	3798	5220	354	ABDE FGHI KLMN Pehj o	608	262
MADISON	MDSNWI15DSO	5890	378	5220	354	ABDE FGHI KLMN Pehj o	608	263
MADISON	MDWNWI15DSO	5890	3798	5220	354	ABDE FGHI KLMN Pehj o	608	264

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MADISON	MDSNWI15DSO	5890	3798	5220	354	ABDE FGHI KLMN Pehj o	608	266
MADISON	MDSNWI15DSO	5890	3798	5220	354	ABDE FGHI KLMN Pehj o	608	267
MADISON	MDSNWI16CGO	5901	3803	5220	354	ABDE FGHI KLMN Pehj o	608	271
MADISON	MDSNWI16CGO	5901	3803	5220	354	ABDE FGHI KLMN Pehj o	608	273
MADISON	MDSNWI16CGO	5901	3803	5220	354	ABDE FGHI KLMN Pehj o	608	274
MADISON	MDSNWI16CGO	5901	3803	5220	354	ABDE FGHI KLMN Pehj o	608	275
MADISON	MDSNWI16CGO	5901	3803	5220	354	ABDE FGHI KLMN Pehj o	608	276
MADISON	MDSNWI11CGO	5888	3796	5220	354	ABDE FGHI KLMN OPQh jlo	608	281

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MADISON	MDSNW111CGO	5888	3796	5220	354	ABDE FGHI KLMN OPQh jlo	608	282
MADISON	MDSNW111CGO	5888	3796	5220	354	ABDE FGHI KLMN OPQh jlo	608	283
MADISON	MDSNW111CGO	5888	3796	5220	354	ABDE FGHI KLMN OPQh jlo	608	291
MADISON	MDSNW1116IT	5888	3796	5220	354	i	608	556
MADISON	MDSNW1116IT	5888	3796	5220	354	i	608	575
MADISON	MDSNW1116IT	5888	3796	5220	354	i	608	695
MADISON	MDSNW111CGO	5888	3796	5220	354	ABDE FGHI KLMN OPQh jlo	608	936
MADISON	MDSNW1116IT	5888	3796	5220	354	i	608	957
MADISON/CORY	MDSNW114CGO	5884	3783	5220	354	ABDE FGHI KLMN Pehj o	608	223
MAIDEN ROCK	MDRKWIXARSO	5800	4353	0886	352	ACGH KPe	715	448
MANAWA	MNWAWIXA596	5587	3868	0905	350	ABCE FGHj o	414	596
MANITOWISH WATERS	NMWRWIXA543	5332	4158	0956	350	C	715	543
MANITOWOC	MNTWWIO1CGO	5565	3655	5220	35	ABDE FGHI KLMN Phjl o	414	682

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MANITOWOC	MNTWWIO1CGO	5565	3655	5220	356	ABDE FGHI KLMN Phj1 o	414	683
MANITOWOC	MNTWWIO1CGO	5565	3655	5220	356	ABDE FGHI KLMN Phj1 o	414	684
MAPLE	MAPLWIXA363	5365	4461	0907	352	ABCh jo	715	363
MAPLETON	MPTNWIXA474	5794	3678	0886	356	ACGH KPe	414	474
MARATHON	MRTHWIXARSO	5562	4045	0886	350	ADGH KPo	715443	
MARENGO	MRNGWIXA278	5340	4321	0860	352	A	715	278
MARINETTE	MRNTWIO1DSO	5372	3756	5220	350	ABDE FGHI KLMN Phj1 o	715	735
MARINETTE (0000-5999)	MRNTWIO1DSO	5372	3756	5220	350	ABDE FGHI KLMN Phj1 o	715	732
MARINETTE	MRNTWIO1DSO	5372	3756	5220	350	ABDE FGHI KLMN Phj1 o	715	732
MARION	MARNWIXA754	5545	3884	0964	350	ABCE GHJh ijlo r	715	754
MARKESAN	MRKSWIXADSO	5737	3803	0886	356	ACDG HKPe	414	398
MARSHALL	MRSHWIXA655	5822	3772	0886	354	ACGH KPe	608	655

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MARSHFIELD	MRFDWIXADSO	5636	4063	0886	350	ADGH KPbc dejo	715	384
MARSHFIELD	MRFDWIXADSO	5636	4063	0886	350	ADGH KPbc deo	715	389
MASON	MASNWIXA765	5353	4356	0860	352	A	715	765
MATTOON	MTONWIXARSO	5491	3940	0886	350	ADGH KPo	715	489
MAUSTON	MSTNWIXADSO	5797	3964	0886	354	ACGH KPej o	608	843
MAUSTON	MSTNWIXADSO	5797	3964	0886	354	ACGH KPej o	608	847
MAYVILLE	MYVLW111RSO	5745	3720	5220	356	ABDE FGHI KLMN Pehj o	414	387
MAZOMANIE	MAZOW111RSO	5896	3863	5220	354	ABDE FGHI KLMN Peh o	608	795
MCALLISTER	MRNTW101DSO	5372	3756	5220	350	ABDE FGHI KLMN Peh o	715	732
MCFARLAND	MCFAWIXADSO	5892	3776	0886	354	ADGH KPej o	608	838
MEDFORD	MDFDWIXACGO	5553	4134	0909	350	ABCj o	715	748
MELLEN	MLLNWIXARSO	5347	4291	0886	352	ADGH KPeo	715	274
MELROSE	MLRSWIXA488	5795	4128	0886	354	ACGH KP	608	488

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MENOMONEE FALLS	MNFLWI32DSO	5773	6324	5220	356	ABDE FGI KLMN Phj1 o	414	251
MENOMONEE FALLS	MILWWI31DSO	5786	3617	5220	356	ABDE FGHI KLMN Pehj o	414	252
MENOMONEE FALLS	MNFLWI32DSO	5773	3624	5220	356	ABDE FGHI KLMN Phj1 o	414	253
MENOMONEE FALLS	MNFLWI32DSO	5773	3624	5220	356	ABDE FGHI KLMN Phj1 o	414	255
MENOMONIE	MNMNWI11DSO	5713	4328	5220	352	ADEF GHIK LMNP ehjo	715	232
MENOMONIE	MNMNWI11DSO	5713	4328	5220	352	ADEF GHIK LMNP ehjo	715	235
MERCER	MRCRWIXA476	5337	4194	0956	350	C	715	476
MERRILL	MRRLWIXADSO	5502	4046	0886	350	ACDG HKPe j	715	536
MERRILLAN	MRLNWIXARSO	5723	4136	0886	352	ADGH KPeo	715	333
MERRIMAC	MRMCWIXA493	5847	3859	0886	354	ACGH KPe	608	493
MERTON	HRLDWI11CGC	5800	3654	5220	356	ABDE FGHI KLMN Peh	414	538

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	XXX
MIDDLETON	MDTNWIXBCGO	5900	3814	0881	354	ABDE GHab cdef	608	829
MIDDLETON	MDTNWIXACGO	5892	3816	0881	354	ABDE GHab cdef	608	831
MIDDLETON	MDTNWIXBCGO	5900	3814	0881	354	ABDE GHab cdef	608	833
MIDDLETON	MDTNWIXACGO	5892	3816	0881	354	ABDE GHab cdef	608	836
MILL CENTER	MLCTWIXADSO	5508	3778	0938	350	ABCh jo	414	865
MILLTOWN	MLTWWIXA825	5622	4469	0910	352	ABCE GHjo	715	825
MILTON	MLTNWIXA868	5913	3705	0841	354	ABCh jo	608	868
MILWAUKEE	MILWWI13CGO	5785	3582	5220	356	ABDE FGHI KLMN Pbhj lo	414	221
MILWAUKEE	MILWWI13CGO	5785	3582	5220	356	A	414	222
MILWAUKEE	MILWWI13CGO	5785	3582	5220	356	ABDE FGHI KLMN Pbhj lo	414	223
MILWAUKEE	MILWWI13CGO	5785	3582	5220	356	ABDE FGHI KLMN Pbhj lo	414	224
MILWAUKEE	MILWWI13CGO	5785	3582	5220	356	ABDE FGHK LMNP bhjl o	414	225

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MILWAUKEE	MILWWI13CGO	5785	3582	5220	356	ABDE FGHI KLMN Pbhj lo	414	226
MILWAUKEE	MILWWI13DSO	5785	3582	5220	356	ABDE FGHI KLMN hjlo	414	227
MILWAUKEE	MILWWI23CGO	5763	3591	5220	356	ABDE FGHI KLMN Pehj o	414	228
MILWAUKEE	MILWWI22RSO	5774	3584	5220	356	ABDE FGHI KLMN Pehj o	414	229
MILWAUKEE	BRFDWIAD61T	5792	3596	5220	356	A	414	254
MILWAUKEE	MILWWI12CGO	5792	3596	5220	356	ABDE FGHI KLMN Phjl o	414	256
MILWAUKEE	MILWWI12CGO	5792	3596	5220	356	ABDE FGHI KLMN Phjl o	414	257
MILWAUKEE	MILWWI12CGO	5792	3596	5220	356	ABDE FGHI KLMN Phjl o	414	258
MILWAUKEE	MILWWI12CGO	5792	3596	5220	356	ABDE FGHI KLMN Phjl o	414	259

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MILWAUKEE	MILWWI17CGO	5781	3586	5220	356	ABDE FGHI KLMN Pehj o	414	263
MILWAUKEE	MILWWI17CGO	5781	3586	5220	356	ABDE FGHI KLMN Pehj o	414	264
MILWAUKEE	MILWWI17CGO	5781	3586	5220	356	ABDE FGHI KLMN Pehj o	414	265
MILWAUKEE	MILWWI12TSO	5792	3596	5220	356	ABDE FGHI KLMN hjlo	414	266
MILWAUKEE	MILWWI13CGO	5785	3582	5220	356	ABDE FGHI KLMN Pbhj lo	414	271
MILWAUKEE	MILWWI13CG1	5785	3582	5220	356	ABDE FGHI KLMN Pbhj lo	414	272
MILWAUKEE	MILWWI13CG1	5785	3582	5220	356	ABDE FGHI KLMN bhjl o	414	273
MILWAUKEE	MILWWI13CG1	5782	3582	5220	356	ABDE FGHI KLMN Pblo o	414	274

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MILWAUKEE	MILWWI13CG1	5785	3582	5220	356	ABDE FGHI KLMN Pbhj lo	414	276
MILWAUKEE	MILWWI13CG1	5785	3582	5220	356	ABDE FGHI KLMN Pbhj lo	414	277
MILWAUKEE	MILWWI13CGO	5785	3582	5220	356	ABDE FGHI KLMN Pbhj lo	414	278
MILWAUKEE	MILWWI10DSO	5807	3580	5220	356	ABDE FGHI KLMN Pehj o	414	281
MILWAUKEE	MILWWI10DSO	5807	3580	5220	356	ABDE FGHI KLMN Pehj o	414	282
MILWAUKEE	MILWWI13CGO	5785	3582	5220	356	ABDE FGHI KLMN Pbhj lo	414	283
MILWAUKEE	MILWWI13CG1	5785	382	5220	356	ABDE FGHI KLMN Pbeh jo	414	287
MILWAUKEE	MILWWI13CGO	5785	3582	5220	356	ABDE FGHI KLMN Pbjl o	414	289

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MILWAUKEE	MILWWI13CG1	5785	3582	5220	356	ABDE FGHI KLMN Pbhj lo	414	291
MILWAUKEE	MILWWI30CGO	5801	3592	5220	356	ABDE FGHI KLMN Pehj o	414	321
MILWAUKEE	MILWWI30CGO	5801	3592	5220	356	ABDE FGHI KLMN Pehj o	414	327
MILWAUKEE	MILWWI11CGO	5774	3584	5220	356	ABDE FGHI KLMN Pehj o	414	332
MILWAUKEE	MILWWI13RSO	5785	3582	5220	356	ABDE FGHI KLMN Pehj o	414	341
MILWAUKEE	MILWWI48CGO	5788	3588	5220	356	ABDE FGHI KLMN OPQh jlor	414	342
MILWAUKEE	MILWWI48DSO	5788	3588	5220	356	ABDE FGHI KLMN Pehj o	414	343
MILWAUKEE	MILWWI48CGO	5788	3588	5220	356	ABDE FGHI KLMN OPQh jlor	414	344

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MILWAUKEE	MILWWI48CGO	5788	3588	5220	356	ABDE FGHI KLMN OPQh jlor	414	345
MILWAUKEE	MILWWI13CGO	5785	3582	5220	356	ABDE FGHI KLMN Pbhj lo	414	347
MILWAUKEE	MILWWI23CGO	5763	3591	5220	356	ABDE FGHI KLMN Pehj o	414	351
MILWAUKEE	MILWWI23CGO	5763	3591	5220	356	ABDE FGHI KLMN Pehj o	414	352
MILWAUKEE	MILWWI28CGO	5778	3604	5220	356	ABDE FGHI KLMN Pehj lo	414	353
MILWAUKEE	MILWWI16CGO	5763	3611	5220	356	ABDE FGHI KLMN Pehj o	414	354
MILWAUKEE	MILWWI16CGO	5763	3611	5220	356	ABDE FGHI KLMN Pehj o	414	355
MILWAUKEE	MILWWI16CGO	5763	3611	5220	356	ABDE FGHI KLMN Pehj o	414	357

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	XXX
MILWAUKEE	MILWWI28CGO	5778	3604	5220	356	ABDE FGHI KLMN Phj1 o	414	358
MILWAUKEE	MILWWI38RSO	5774	3614	5220	356	ABDE FGHI KLMN Phj1 o	414	359
MILWAUKEE	MILWWI16CGO	5763	3611	5220	356	ABDE FGHI KLMN Pehj o	414	362
MILWAUKEE	MILWWI17CGO	5781	3586	5220	356	ABDE FGHI KLMN Pehj o	414	372
MILWAUKEE	MILWWI17CGO	5781	3586	5220	356	ABDE FGHI KLMN Pehj o	414	374
MILWAUKEE	MILWWI34CGO	5793	3585	5220	356	ABDE FGHI KLMN Pehj o	414	382
MILWAUKEE	MILWWI34CGO	5793	3585	5220	356	ABDE FGHI KLMN Pehj o	414	383
MILWAUKEE	MILWWI34CGO	5793	3585	5220	356	ABDE FGHI KLMN Pehj o	414	384

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MILWAUKEE	MILWWI10DSO	5807	3580	5220	356	ABDE FGHI KLMN Pehj o	414	421
MILWAUKEE	MSKGWI36DSO	5827	3600	5220	356	ABDE FGHI KLMN Pehj o	414	422
MILWAUKEE	MILWWI10DSO	5807	3580	5220	356	ABDE FGHI KLMN Pehj o	414	423
MILWAUKEE	MILWWI25CGO	5814	3592	5220	356	ABDE FGHI KLMN Phj1 o	414	425
MILWAUKEE	MILWWI28CGO	5778	3604	5220	356	ABDE FGHI KLMN Phj1 o	414	438
MILWAUKEE	MILWWI27CG1	5782	3595	5220	356	ABDE FGHI KLMN Pehj o	414	442
MILWAUKEE	MILWWI27CG1	5782	3595	5220	356	ABDE FGHI KLMN Pehj o	414	444
MILWAUKEE	MILWWI27CG1	5782	3595	5220	356	ABDE FGHI KLMN Pehj o	414	445

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MILWAUKEE	MILWWI27CG1	5782	3595	5220	356	ABDE FGHI KLMN Pehj o	414	447
MILWAUKEE	MILWWI27CG1	5782	3595	5220	356	ABDE FGHI KLMN Pehj o	414	449
MILWAUKEE	MILWWI12CGO	5792	3596	5220	356	ABDE FGHI KLMN Phjl o	414	453
MILWAUKEE	MILWWI48CGO	5788	3588	5220	356	ABDE FGHI KLMN OPQh jlor o	414	456
MILWAUKEE	MILWWI28CGO	5778	3604	5220	356	ABDE FGHI KLMN Phjl o	414	461
MILWAUKEE	MILWWI28CGO	5778	3604	220	356	ABDE FGHI KLMN Phjl o	414	462
MILWAUKEE	MILWWI28CGO	5778	3604	5220	356	ABDE FGHI KLMN Phjl o	414	463
MILWAUKEE	MILWWI28CGO	5778	3604	5220	356	ABDE FGHI KLMN Phjl o	414	464

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MILWAUKEE	MILWWI28CGO	5778	3604	5220	356	ABDE FGHI KLMN Phj1 o	414	464
MILWAUKEE	MILWWI12CGO	5792	3596	5220	356	ABDE FGHI KLMN Phj1 o	414	471
MILWAUKEE	MILWWI12CGO	5792	3596	5220	356	ABDE FGHI KLMN Phj1 o	414	475
MILWAUKEE	MILWWI12CGO	5792	3596	5220	356	ABDE FGHI KLMN Phj1 o	414	476
MILWAUKEE	MILWWI42CGO	5794	3576	5220	356	ABDE FGHI KLMN Pehj o	414	481
MILWAUKEE	MILWWI42CGO	5794	3576	5220	356	ABDE FGHI KLMN Pehj o	414	482
MILWAUKEE	MILWWI42CGO	5794	3576	5220	356	ABDE FGHI KLMN Pehj o	414	483
MILWAUKEE	MILWWI42RSO	5794	3576	5220	356	ABDE FGHI KLMN Pehj o	414	486

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MILWAUKEE	MILWWI1261T	5792	3596	5220	356	AD	414	491
MILWAUKEE	MILWWI28CGO	5778	3604	5220	356	ABDE FGHI KLMN Phjl o	414	527
MILWAUKEE	MILWWI25CGO	5814	3592	5220	356	ABDE FGHI KLMN Phjl o	414	529
MILWAUKEE	MILWWI28CGO	5778	3604	5220	356	ABDE FGHI KLMN Phjl o	414	535
MILWAUKEE	MILWWI28RSO	5778	3604	5220	356	ABDE FGHI KLMN Pehj o	414	536
MILWAUKEE	MILWWI30CGO	5801	3592	5220	356	ABDE FGHI KLMN Pehj o	414	541
MILWAUKEE	MILWWI30CGO	5801	3592	5220	356	ABDE FGHI KLMN Pehj o	414	543
MILWAUKEE	MILWWI30CGO	5801	3592	5220	356	ABDE FGHI KLMN Pehj o	414	545
MILWAUKEE	MILWWI30CGO	5801	3592	5220	356	ABDE FGHI KLMN Pehj o	414	546

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NX
MILWAUKEE	MILWWI482CD	5788	3588	5220	356	J	414	555
MILWAUKEE	MILWWI17CGO	5781	3586	5220	356	ABDE FGHI KLMN Pehj o	414	562
MILWAUKEE	MILWWI13CGO	5785	3582	5220	356	A	414	575
MILWAUKEE	MILWWI34CGO	5793	3585	5220	356	ABDE FGHI KLMN Pehj o	414	643
MILWAUKEE	MILWWI34CGO	5793	3585	5220	356	ABD	414	645
MILWAUKEE	MILWWI34CGO	5793	3585	5220	356	ABDE FGHI KLMN Pehj o	414	647
MILWAUKEE	MILWWI34CGO	5793	3585	5220	356	ABDE FGHI KLMN Pehj o	414	649
MILWAUKEE	MILWWI1261T	5792	3596	5220	356	i	414	663
MILWAUKEE	MILWWI34CGO	5793	3585	5220	356	ABDE FGHI KLMN Pehj o	414	671
MILWAUKEE	MILWWI34CGO	5793	3585	5220	356	ABDE FGHI KLMN Pehj o	414	672
MILWAUKEE	MILWWI48CGO	5788	3588	5220	356	ABDE FGHI KLMN OPQh jlor	414	678

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MILWAUKEE	MILWWI42CGO	5794	3576	5220	356	ABDE FGHI KLMN Pehj o	414	744
MILWAUKEE	MILWWI42CGO	5794	3576	5220	356	ABDE FGHI KLMN Pehj o	414	747
MILWAUKEE	MILWWI10DSO	5807	3580	5220	356	ABDE FGHI KLPe hjo	414	761
MILWAUKEE	MILWWI56CGO	5812	3570	5220	356	ABDE FGHI KLMN Pehj o	414	762
MILWAUKEE	MILWWI56CGO	5812	3570	5220	356	ABDE FGHI KLMN Pehj o	414	764
MILWAUKEE	MILWWI13CG1	5782	3582	5220	356	ABDE FGHI KLMN Pbhj lo	414	765
MILWAUKEE	MILWWI56CGO	5812	3570	5220	356	ABDE FGHI KLMN Pehj o	414	768
MILWAUKEE	MILWWI42CGO	5794	3576	5220	356	ABDE FGHI KLMN Pehj o	414	769

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MILWAUKEE	MILWWI12CGO	5792	3596	5220	356	ABDE FGHI KLMN Phjl o	414	771
MILWAUKEE	MILWWI12CGO	5792	3596	5220	356	ABDE FGHI KLMN Phjl o	414	774
MILWAUKEE	MILWWI12CGO	5792	3596	5220	356	ABDE FGHI KLMN Phjl o	414	778
MILWAUKEE	MILWWI31DSO	5786	3617	5220	356	ABDE FGHI KLMN Pehj o	414	781
MILWAUKEE	MILWWI45CGO	5800	3609	5220	356	ABDE FGHI KLMN Phjl or	414	782
MILWAUKEE	MILWWI31DSO	5786	3617	5220	356	ABDE FGHI KLMN Pehj o	414	783
MILWAUKEE	MILWWI45CGO	5800	3609	5220	356	ABDE FGHI KLMN PHjl or	414	784
MILWAUKEE	MILWWI45CGO	5800	3609	5220	356	ABDE FGHI KLMN Phjl or	414	785

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MILWAUKEE	MILWWI45CGO	5800	3609	5220	356	ABDE FGHI KLMN Phj1 or	414	786
MILWAUKEE	MILWWI45DSO	5800	3609	5220	356	ABDE FGHI KLMN hj1o	414	789
MILWAUKEE	MILWWI1261T	5792	3596	5220	356	AD	414	791
MILWAUKEE	BRFDWI11RS2	5803	3615	5220	356	ABDE FGHI KLMN Pehj o	414	792
MILWAUKEE	MILWWI45CGO	5800	3609	5220	356	ABDE FGHI KLMN Phj1 or	414	796
MILWAUKEE	MILWWI45CGO	5800	3609	5220	356	ABDE FGHI KLMN Phj1 or	414	797
MILWAUKEE	MILWWI48CGO	5788	3588	5220	356	ABDE FGHI KLMN OPQh jlor	414	799
MILWAUKEE	MILWWI12CGO	5792	3596	5220	356	ABD	414	844
MILWAUKEE	MILWWI27CG1	5782	3595	5220	356	ABDE FGHI KLMN Pehj o	414	871
MILWAUKEE	MILWWI27CG1	5782	3595	5220	356	ABDE FGHI KLMN Pehj o	414	873

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MILWAUKEE	MILWWI27CG1	5782	3595	5220	356	ABDE FGHI KLMN Pehj o	414	874
MILWAUKEE	MILWWI1261T	5792	3596	5220	356	i	414	881
MILWAUKEE	MILWWI48CGO	5788	3588	5220	356	ABDE FGHI KLMN OPQh jlor	414	931
MILWAUKEE	MILWWI48CGO	5788	3588	5220	356	ABDE FGHI KLMN OPQh jlor	414	933
MILWAUKEE	MILWWI48CGO	5788	3588	5220	356	ABDE FGHI KLMN OPQh jlor	414	935
MILWAUKEE	MILWWI48CGO	5788	3588	5220	356	ABDE FGHI KLMN OPQh jlor	414	936
MILWAUKEE	MILWWI48CGO	5788	3588	5220	356	ABDE FGHI KLMN OPQh jlor	414	937
MILWAUKEE	MILWWI261T	5792	3596	5220	356	ABi	414	955
MILWAUKEE	MILWWI22CGO	5774	3584	5220	356	ABDE FGHI KLMN Pehj o	414	961

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MILWAUKEE	MILWWI22CGO	5774	3584	5220	356	ABDE FGHI KLMN Pehj o	414	962
MILWAUKEE	MILWWI22CGO	5774	3584	5220	356	ABDE FGHI KLMN Pehj o	963	
MILWAUKEE	MILWWI22CGO	5774	3584	5220	356	ABDE FGHI KLMN Pehj o	414	964
MILWAUKEE	MILWWI482CD	5788	3588	5220	356	J	608	555
MILWAUKEE	MILWWI482CD	5788	3588	5220	356	J	715	555
MINDORO	MNDRWIXA857	5824	4131	0886	354	ACGH KPe	608	857
MINERAL POINT	MNPTWIXARSO	5987	3891	0886	354	ADGH KPeo	608	987
MINOCQUA	MNCQWIXADSO	5367	4118	0886	350	ADGH KPbc dej	715	356
MINONG	NMMGWIXA466	5468	4428	0950	352	C	715	466
MISHICOT	MSHCWIXARSO	537	3668	0886	356	GHKP e	414	755
MONDOVI	MNDVWIXACGO	5756	4263	0912	352	ABCE FGHj o	715	926
MONROE	MONRWIXA61T	5995	3784	0963	354	ABDG Heij o	608	324
MONROE	MONRWIXA61T	5995	3784	0963	354	ABDG Heij o	608	325
MONROE	MONRWIXA61T	5995	3784	0963	354	ABDG Heij o	608	328

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
MONROE	MONRWIXA61T	5995	3784	0963	354	ABDG Heij o	608	329
MONROE CENTER	MNCTWIXARSO	5727	3963	0886	354	ACGH	608	564
MONT DU LAC, MN	DLTHMND0636	5382	4536	5142	624	AEFG HIKL MPUV e	715	636
MONTELLO	MTLLWIXARSO	5745	3859	0886	354	ADGH KPe	608	297
MONTFORT	MTFTWIXARSO	5988	3932	0886	354	ADGH KPeo	608	943
MONTICELLO	MNTIWIXA938	5965	3794	0963	354	ADGH	608	938
MOSINEE	MOSNWIXA693	5577	4011	0915	350	ABC	715	693
MOUNT CALVARY	MTCLWIXARSO	5660	3711	0886	356	ADGH KPeo	414	753
MOUNT HOPE	MTHPWIXA988	6012	3995	0930	354	ABC	608	988
MOUNT HOREB	MTHBWIXA437	5925	3839	0916	354	ABCj o	608	437
MOUNT VERNON	MTVRWIXA832	5931	3823	0917	354	ABC	608	832
MOUNT ZION	MTZNWIXA872	5948	4006	0922	354	ACEF GHIK LMNO PUVe	608	872
MUKWONAGO	MKWNWIXADSO	5851	3625	0922	356	ABCE FGHI KLMN OPUV e	414	363
MUSCODA	MSCDWIXA739	5941	3958	0886	354	ACGH KPe	608	739
MUSKEGO	MSKGWI36DSO	5827	3600	5220	356	ABDE FGHI KLMN Pehj o	414	679
NAMEKAGON LAKE	NMKNWIXADSO	5398	4334	0860	352	A	715	794
NECEDAH	NCDHWIXA565	5752	3776	0859	354	ABC	608	565

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NEENAH	NENHWI11CGO	5606	3776	5220	350	ABDE FGHI KLMN Pehj o	414	721
NEENAH	NENHWI11CGO	5606	3776	5220	350	ABDE FGHI KLMN Pehj o	414	722
NEENAH	NENHWI11CGO	5606	3776	5220	350	ABDE FGHI KLMN Pehj o	414	725
NEENAH	NENHWI11DSO	5606	3776	5220	350	ABDE FGHI KLMN Pehj o	414	727
NEENAH	NENHWI11CGO	5606	3776	5220	350	ABDE FGHI KLMN Pehj o	414	729
NEENAH	NENHWI11CGO	5606	3776	5220	350	ABDE FGHI KLMN Pehj o	414	751
NEILLSVILLE	NSVLWIXA743	5685	4111	0844	350	ABCj o	715	743
NEKOOSA	NEKSWIXA886	5684	3990	0974	350	ACF	715	886
NELSON	NLSNWIXA673	5808	4297	0918	352	ABC	715	673
NEOPIT	NEPTWIXA756	5479	3907	0964	350	ABCE GHjh ijlo r	715	756

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
NEOSHO	NESHWIXA625	5777	3698	0886	356	ACGH	414	625
NESHKORO	NSHWIXADSO	5704	3860	0922	350	KPe ABCE FGHI KLMN OPUV e	414	293
NEW AUBURN	NABNWIXA237	5624	4308	0863	352	ABCE FGHj	715	237
NEW FRANKEN	NWFRWIXA866	5477	3734	0886	350	o ACGH KP	414	866
NEW GLARUS	NWGLWIXA527	5955	3806	0917	354	ABCj	608	527
NEW HOLSTEIN	NWHLWIXA898	5625	3705	0886	356	o ACGH KPe	414	898
NEW LISBON	NWLSWIXA562	5787	3986	0900	354	ABC	608	562
NEW LONDON	NWLNWI11RSO	5588	3837	5220	350	ABDE FGHI KLMN Pehj o	414	982
NEW RICHMOND	NWMDWIXADSA	5705	4436	0944	352	C	715	243
NEW RICHMOND	NWMDWIXADSA	5705	4436	0944	352	C	715	246
NEWBURG	NWBGWI11675	5720	3641	5220	356	ABCE FGHI KLMN Peh	414	675
NEWTON	NWTNWIXA726	5591	3656	0944	356	BCjo	414	726
NEWTONBURG	NTBGWIXACGA	5579	3666	0896	356	BCjo	414	758
NIAGARA	NIGRWIXA25A	5270	3876	0920	342	ABCE FGHj o	715	251
NICHOLS	NCHLWIXA525	5534	3816	0886	350	ACGH KP	414	525
NORTH ANTIOCH	ANTCILACMGO	5907	3553	5070	358	ABC	414	396
NORTH APPLE RIVER	APRVILXA59A	6049	3842	1036	360	C	608	596

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NORTH FREEDOM	NFDMWI11RSO	5847	3903	5220	354	ABDE FGHI KLMN Ph	608	522
NORTH LAKE	HRLDWI11CGA	5800	3654	5220	356	ABEF GHIK LMNP eh	414	966
NORTH PRAIRIE	NPRRWIXADSO	5842	3642	0922	356	ABCE FGHI KLMN OPUV ei jo	414	392
NORTH WINSLOW	WNFLILXA36A	6029	3797	1036	360	C	608	867
NORTHFIELD	NRFDWIXA984	5739	4173	0960	352	ABCh jo	715	984
NORWALK	NRWLWIXA38A	5829	4044	0913	354	C	608	823
OAKFIELD	OKFDWIXADSO	5709	3736	0886	356	ADGH KPej o	414	583
OCONOMOWOC	OCNMWI11CGO	5816	3674	5220	356	ABDE FGHI KLMN Pehj o	414	567
OCONOMOWOC	OCNMWI11CGO	5816	3674	5220	356	ABDE FGHI KLMN Pehj o	414	569
OCONTO	OCNTWI11CGO	5429	3767	5220	350	ABEF GHIK LMNP eh	414	834
OCONTO FALLS	OCFLWI11CGO	5452	3804	5220	350	ABEF GHIK LMNP eh	414	846

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OGDENSBURG	OGBGWIXA244	5597	3882	0905	350	ABCE FGHj o	414	244
OGEMA	OGEMWIXA767	5494	4155	0956	350	C	715	767
OMRO	OMROWI11DSO	5656	3801	5220	350	ABDE FGHI KLMN Peo	414	685
ONEIDA	ONEDWIXADSO	5527	3772	0938	350	ABCh jo	414	869
ONTARIO	ONTRWIXA337	5847	4031	0913	354	C	608	337
OOSTBURG	OSBGWIXA564	5666	3628	0886	356	ACGH KPe	414	564
OREGON	ORGNWIXADSO	5916	3781	0886	354	ADGH KPej o	608	835
ORFORDVILLE	ORVLWIXA879	5964	3734	0886	354	ACGH KP	608	879
OSCEOLA	OSCLWIXA29A	5674	4471	0950	352	CH	715	294
OSHKOSH	OSHKWIO1CGO	5644	3771	5220	350	ABDE FGHI KLMN Phj1 o	414	231
OSHKOSH	OSHKWIO1CGO	5644	3771	5220	350	ABDE FGHI KLMN Phj1 o	414	233
OSHKOSH	OSHKWIO1CGO	5644	3771	5220	350	ABDE FGHI KLMN Phj1 o	414	235
OSHKOSH	OSHKWIO1CGO	5644	3771	5220	350	ABDE FGHI KLMN Phj1 o	414	236

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
OSHKOSH	OSHKWIO1RSO	5644	3771	5220	350	ABDE FGHI KLMN Phj1 o	414	424
OSHKOSH	OSHKWIO1CGO	5644	3771	5220	350	ABDE FGHI KLMN Phj1 o	414	426
OSSEO	OSSEWIXADSO	5724	4201	0886	352	ADGH KPej o	715	597
OWEN	OWENWIXA229	5608	4145	0886	350	ACGH	715	229
OXFORD	OXFRWIXA586	5763	3891	0908	354	BC	608	586
PACKWAUKEE	PCKWWIXA589	5753	3871	0908	354	BC	608	589
PALMYRA	PLMYWIXA495	5867	3663	0922	356	ACEF GHIK LMNO PUVe	414	495
PARDEEVILLE	PDVLWIXA429	5792	3830	0886	354	ACGH KPe	608	429
PARK FALLS	PKFLWIXADSO	5409	4225	0886	352	ADGH KPej o	71	762
PARKSIDE	PRSDWI11CGO	5852	3535	5220	356	ABDE FGHI KLMN Pehj o	414	552
PARKSIDE	PRSDWI11CGO	5852	3535	5220	356	ABDE FGHI KLMN Pehj o	414	553
PELICAN LAKE	PCLKWIXA487	5400	4009	0891	350	A	715	487
PEMBINE	PMBNWIXA324	5296	3860	0841	342	ABCh jo	715	324
PEPIN	PEPNWIXARSO	5813	4319	0886	352	ACGH KPe	715	442

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
PERKINSTOWN	PRTWIXA785	5560	4176	0909	350	ABC	715	785
PESHTIGO	PSHTWI11CGO	5390	3768	5220	350	ABCE FGHI KLMN Peh	715	582
PEWAUKEE	PEWKWI40CGO	5804	3638	5220	356	ABDE FGHI KLMN Peho	414	691
PEHLPS	PHLSWIXARSO	5290	4052	0886	350	ACGH KPe	715	545
PHILLIPS	PHLPWIXADSO	5452	4193	0937	352	Cj	715	339
PICKEREL	PCKRWIXARSO	5412	3958	0886	350	ACDG HKPo	715	484
PICKETT	PCKTWIXARSO	5679	6787	0886	356	ADGH KPo	414	589
PIGEON FALLS	PGFLWIXA983	5753	4185	0960	352	ABCh jo	715	983
PITTSVILLE	PTSVWIXA884	5677	4034	0859	350	ABC	715	884
PLAIN	PLANWIXARSO	5895	3910	0886	354	ACGH KP	608	546
PLAINFIELD	PLFDWIXA335	5674	3923	0962	350	ABCh ijo	715	335
PLATTEVILLE	PTVLWIXA342	6031	3919	0934	354	ACf	608	342
PLATTEVILLE	PTVLWIXACGO	6031	3919	0934	354	ACfi j	608	348
PLATTEVILLE	PTVLWIXACGO	6031	3919	0934	354	ACfi j	608	349
PLEASANTVILLE	PSVLWIXA694	5755	4201	0960	352	ABCh jo	715	694
PLUM CITY	PLCYWIXARSO	5779	4343	0886	352	ACGH KPe	715	647
PLYMOUTH	PLMOWIXADSO	5655	3665	0886	356	ADGH KPbc dejo	414	892
PLYMOUTH	PLMOWIXADSO	5655	3665	0886	356	ADGH KPbc dejo	414	893
POLONIA	POLNWIXA592	5601	3947	0843	350	A	715	592
POPLAR	PPLRWIXA364	5372	4470	0950	352	C	715	364
PORT EDWARDS	PTEDWIXA88A	5676	3988	0974	350	ACF	715	887

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PORT WASHINGTON	PTWAWI11RSO	5716	3614	5220	356	ABDE FGHI KLMN Pehj o	414	284
PORT WING	PTWGWIXA774	5352	4416	0860	352	A	715	774
PORTAGE	PRTGWIXADSO	5803	3853	0886	354	ADGH KPbc dejo	608	742
POTOSI	POTSWIXA763	6056	3948	0880	354	ABChjo	608	763
POY SIPPI	PYSPWIXA987	5654	3847	0841	350	ABChjo	414	987
POYNETTE	PYNTWIXADSO	5827	3830	0922	354	ABCE FGHI KLMN OPUV e	608	635
PRAIRIE DU CHIEN	PDUCWIXADSO	6016	4046	0886	354	ADGH KPdj o	608	326
PRARIE FARM	PRFMWIXA455	5646	4369	0861	352	ABC	715	455
PRENTICE	PRNTWIXADSO	5473	4165	0937	352	C	715	428
PRESCOTT	PRSCWIXADSO	5795	4439	0886	352	ADGH KPej o	715	262
PRESQUE ISLAND	PRISWIXA686	5307	4165	0956	350	C	715	686
PRINCETON	PRTNW111DSO	5719	3836	5220	350	ABDE FGHI KLMN Peho	414	295
PULASKI	PLSKWIXA822	5498	3796	0938	350	ABChjo	414	822
RACINE	PRSDW111554	5852	3535	5220	356	ABDE FGHI KLMN Pehj o	414	554
RACINE	RACNW101CGO	5836	3534	5220	356	ABDE FGHI KLMN Phjl o	414	631

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RACINE	RACNWIO1CGO	5836	3534	5220	356	ABDE FGHI KLMN Phj1 o	414	632
RACINE	RACNWIO1CGO	5836	3534	5220	356	ABDE FGHI KLMN Phj1 o	414	633
RACINE	RACNWIO1CGO	5836	3534	5220	356	ABDE FGHI KLMN Phj1 o	414	634
RACINE	RACNWIO1CGO	5836	3534	5220	356	ABDE FGHI KLMN Phj1 o	414	636
RACINE	RACNWIO1CGO	5836	3534	5220	356	ABDE FGHI KLMN Phj1 o	414	637
RACINE	RACNWI11DSO	5825	3540	5220	356	ABDE FGHI KLMN Pehj o	414	639
RACINE	RACNWI11DSO	5825	3540	5220	356	ABDE FGHI KLMN Pehj o	414	681
RACINE	STRTWI11CGO	5843	3551	5220	356	ABDE FGHI KLMN Peh	414	886

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
RACINE	MILWWI1261T	5792	3592	5220	356	i	414	939
RADISSON	RDSNWIXA945	5491	4314	0936	352	ABCE FGH	715	945
RANDOLPH	RNOHWIXBDSO	5770	3789	0931	356	ABC	414	326
RANDOM LAKE	RNLKWIXADSO	5691	3643	0886	356	ACGH KPe	414	994
READFIELD	RDFDWIXA667	5612	3829	0898	350	C	414	667
READSTOWN	RDTWWIXA629	5912	4028	0966	354	A	608	629
REDGRANITE	RDGRWI11DSO	5680	3851	5220	350	ABDE FGHI KLMN Peho	414	566
REEDSBURG	RDBGWIXADSO	5843	3929	0886	354	ADGH KPej o	608	524
REEDSVILLE	RDVLWIXA754	5576	3704	0886	356	ACGH KPe	414	754
REESEVILLE	RSVLWIXA927	5803	3742	0876	356	ABC	414	927
RHINELANDER	RHNLWIXACGO	5394	4053	0940	350	A	715	362
RHINELANDER	RHNLWIXACGO	5394	4053	0940	350	A	715	369
RIB LAKE	RBLKWIXA427	5510	4131	0941	350	A	715	427
RICE LAKE	RCLKWIXBDSO	5579	4360	0886	352	ADGH KPbc dejo	715	234
RICHLAND CENTER	RCFTWIXADSO	5908	3964	0886	354	ACGH KPYZ	608	647
RICHMOND	RCMDWI11CGO	5910	3670	5220	354	ABCE FGHI KLMN Peh	608	883
RIDGELAND	RDLDWIXA949	5647	4354	0861	352	ABC	715	949
RIDGEWAY	RDWYWIXARSO	5945	3875	0886	354	ACDG JKPe o	608	924
RIO	RIO-WIXARSO	5804	3812	0931	356	ABC	414	992
RIPON	RIPNWIXADSO	5700	3795	0922	350	ABCE FGHI KLMN OPUV ejo	414	748

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
RIVER FALLS	RVGLW111DSO	5762	4424	5220	352	ABDE FGHI KLMN Pehj o	715	425
ROBERTS	RBRTW111RSO	5734	4427	5220	352	ABDE FGHI KLMN Peh	715	749
ROCK FALLS	RCFLWIXA875	5729	4280	0971	352	ABDhjo	715	875
ROSENDALE	RODLWIXA872	5695	3769	0886	356	ACGH KPe	414	872
ROSHOLT	RSHTWIXA677	5581	3939	0843	350	A	715	677
RUDOLPH	RDLPWIXA435	5643	3993	0974	350	ACF	715	435
SABIN	SABNWIXA538	5907	4004	0942	354	ABDHjo	608	538
SAINT CLOUD	STCDWIXARSO	5655	3699	0886	356	ADGH KPeo	414	999
SAINT CROIX FALLS	SCFLWIXARSO	5656	4478	0886	352	ADGH KPo	715	483
SAINT NAZIANZ	STNZWIXA773	5601	3684	0965	356	ABC	414	773
SALEM	SALMWIXA843	5891	3564	0886	356	ACGH KPe	414	843
SAND CREEK	SNCKWIXA658	5640	4322	0861	352	ABC	715	658
SARONA	SARNWIXA469	5541	4389	0948	352	ABC	715	469
SAUK CITY	SKCYWIXADSO	5871	3864	0886	354	ADGH KPej o	608	643
SAYNER	SYNRWIXARSO	5337	4107	0886	350	ADGH KPe	715	542
SCANDINAVIA	SCNDWIXA467	5603	3898	0945	350	ABC	715	467
SENECA	SENCWIXA734	5953	4049	0886	354	ACGH KP	608	734
SEYMOUR	SYMRWIXADSO	5535	3792	0886	350	ACDG HKPo	414	833
SHARON	SHRNWIXA736	5950	3645	0946	356	ABChjo	414	736
SHAWANO	SHWNWIXACGO	5504	3856	0964	350	ABCE GHJh ijlo r	715	524

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
SHEBOYGAN	SHBYWIO1CGO	5635	3629	5220	356	ABDE FGHI KLMN Pehj lo	414	452
SHEBOYGAN	SHBYWIO1CGO	5635	3629	5220	356	ABDE FGHI KLMN Phj1 o	414	457
SHEBOYGAN	SHBYWIO1CGO	5635	3629	5220	356	ABDE FGHI LMNP hjlo	414	458
SHEBOYGAN	SHBYWIO1CGO	5635	3629	5220	356	ABDE FGHI KLMN Phj1 o	414	459
SHEBOYGAN	SHBYWIO181T	5635	3629	5220	356	AB	414	576
SHEBOYGAN FALLS	SHFLWI12DSO	5646	3638	5220	356	ABDE FGHI KLMN Pehj o	414	467
SHAWANO	SHWNWIXACGO	5504	3856	0964	350	ABCE GHJh ijlo r	715	526
SHELDON	SHLNWIXA452	5562	4234	0956	352	C	715	452
SHELL LAKE	SHIKWIXA468	5542	4409	0948	352	ABCE FGHI jo	715	468
SHERWOOD	SHWDWIXA989	5594	3748	0954	350	ABC	414	989
SHIOCTON	SCTNWIXA986	5566	3820	0886	350	ACGH KP	414	986
SHULLSBURG	SHBGWIX1965	6045	3868	0886	354	ACGH KPe	608	965

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
SILVER LAKE	SLLKWIXA889	5899	3570	0886	356	ACGH KPe	414	889
SIREN	SIRNWIXA349	5566	4476	0949	352	ABCE FGH	715	349
SISTER BAY	SSBYWIXADSO	5319	3696	0886	350	ADGH KPej o	414	854
SLINGER	SLNGWIXADSO	5757	3666	0886	356	ACDG JKPe jo	414	644
SOLDIERS GROVE	SLGVWIXA624	5923	4026	0942	354	ABDh jo	608	624
SOLON SPRINGS	SLSPWIXA378	5418	4451	0950	352	C	715	378
SOMERS	SMRSWI11CGO	5862	3542	5220	356	ABCE FGHI KLMN Peh	414	859
SOMERSET	SMRTWIXA247	5714	4457	0951	352	ABCh jo	715	247
SOO LAKE	SOLKWIXARSO	5465	4216	0937	352	C	715	332
SOUTH BELOIT, IL	BELTWIO1389	5970	3688	5070	354	ABDE FGHI KLMN Pehj	815	389
SOUTH WAYNE	SWYNWIXA439	6021	3816	0963	354	ADGH	608	439
SPARTA	SPRTWIXACGO	5820	4083	0913	354	CGHb 1	608	269
SPENCER	SPNCWIXA659	5626	4089	0886	350	ACGH KPbc de	715	659
SPIDER LAKE	SRLKWIXARSO	5442	4335	0886	352	ACGH KPe	715	462
SPOONER	SPNRWIXADSO	5525	4411	0922	352	ABCE FGHI KLMN OPUV ejo	715	635
SPREAD EAGLE	SPEGWIXA696	5258	3904	0920	342	ABC	715	696
SPRING GREEN	SPGRWIXADSO	5916	3093	0886	354	ACGH KPej o	608	588

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SPRING LAKE	SPLKWIXA772	5728	4362	0971	352	ABDh	715	772
SPRING VALLEY	SPVYWIXA778	5739	4369	0953	352	jox ABC	715	778
SPRINGBROOK	SPBKWIXARSO	5489	4396	0886	352	GHKP	715	766
SPRINGSTEAD	SPSTWIXA583	5369	4188	0956	350	e C	715	583
STANLEY	STNLWI12CGO	5630	4197	5220	352	ACEF GHIK LMNP eh	715	644
STAR PRAIRIE	STPRWIXA248	5690	4443	0944	352	D	715	248
STETSONVILLE	STVLWIXA678	5565	4124	0909	350	ABC	715	678
STEUBEN	STBNWIXA476	5971	4017	0922	354	ACEF GHIK LMNO PUVe	608	476
STEVENS POINT	STPTWIO1DSO	5622	3967	5220	350	ABDE FGHI KLMN OPhj lo	715	341
STEVENS POINT	STPTWIO1DSO	5622	3967	5220	350	ABDE FGHI KLMN OPhj lo	715	344
STEVENS POINT	STPTWIO1DSO	5622	3967	5220	350	ABDE FGHI KLMN OPhj lo	715	345
STEVENS POINT	STPTWIO1DSO	5622	3967	5220	350	ABDE FGHI KLMN OPhj lo	715	346
STOCKBRIDGE	STBRWIXA439	5616	3744	0954	350	ABC	414	439
STODDARD	STRDWIXA457	5901	4114	0868	354	ABCE FGH	608	457

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
STONE LAKE	STLKWIXARSO	5498	4365	0886	352	ACGH KPe	715	865
STOUGHTON	SGTNW111CGO	5905	3755	5220	354	ABDE FGHI KLMN Pehj	608	873
STRATFORD	SRFRWIXA687	5602	4062	0886	350	ACGH KPe	715	687
STRUM	STRMWIXA695	5741	4222	0960	352	ABCh ijo	715	695
STURGEON BAY	STBYW111RSO	5404	3694	5220	350	ABDE FGHI KLMN Phj1 o	414	746
SUGAR CAMP	SGCPWIXA272	5361	4055	0891	350	A	715	272
SULLIVAN	SLLVWIXADSO	5840	3676	0957	356	ABCE FGHI KLMN OPUV e	414	593
SUN PRAIRIE	SNPRWIXACGO	5854	3782	0886	354	ADGH KPej o	608	837
SUPERIOR	SPRRW112DSO	5364	4523	5220	352	ABDE FGHI KLMN Phj1 o	715	392
SUPERIOR	SPRRW112DSO	5364	4523	5220	352	ABDE FGHI KLMN Phj1 o	715	394
SUPERIOR	SPRRW111398	5364	4508	5220	352	ABDe jo	715	398
SUPERIOR	SPRRW113RSO	5400	4509	5220	352	ABDe jo	715	399
SURING	SRNGWIXA842	5444	3847	0886	350	ACGH KP	414	842

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SUSSEX	SUSXWI46DSO	5790	3634	5220	356	ABDE FGHI KLMN Peho	414	246
TAYLOR	TAYLWIXARSO	5767	4163	0886	352	ADGH KPeo	715	662
THERESA	THRSWIXARSO	5734	3708	0886	356	ACGH KPe	414	488
THIENSVILLE	MILWWI23CGO	5763	3591	5220	356	ABDE FGHI KLMN Pehj	414	241
THIENSVILLE	MILWWI16CGO	5763	3611	5220	356	o ABDE FGHI KLMN Pehj	414	242
THIENSVILLE	CDBGWI15DSO	5743	3621	5220	356	o ABDE FGHI KLMN Pehj	414	243
THORP	THRPWIXACGO	5620	4179	0959	352	o ABCE FGHj	715	669
THREE LAKES	THLKWIXARSO	5346	4034	0886	350	o ACGH KPe	715	546
TIGERTON	TGTNWIXA535	5543	3916	0964	350	ABCE GHJh ijlo r	715	535
TISCH MILLS	TSMLWIXA776	5519	3676	0954	356	ABC	414	776
TOMAH	TOMAWIXADSO	5792	4043	0922	354	ABCE FGHI KLMN OPUV eijs	608	372

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WIRE CENTER INTERCONNECTION INFORMATION

SERVING WIRE CENTER V-AND H COORDINATE INFORMATION

LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
TOMAHAWK	TMHKWIXADSO	5450	4081	0886	350	ADGH KPWX Yo	715	453
TRADE LAKE	TDLKWIXA488	5600	4503	0879	352	ABC	715	488
TREMPEALEAU	TRMPWIXARSO	5849	4178	0886	354	ACDG HKPe	608	534
TREVOR	TRVRWIXA862	5906	3565	0886	356	ACGH KPeo	414	862
TURTLE LAKE	TTLKWIXA986	5625	4407	0961	352	ABCh jo	715	986
TWIN BRIDGE	TWBRWIXA757	5370	3857	0841	350	C	715	757
TWIN LAKES	TWLKWIXA877	5908	3580	0886	356	ACGH KPe	414	877
TWO RIVERS	TWRVWIXADSO	5546	3644	0886	356	GHKP e	414	793
TWO RIVERS	TWRVWIXADSO	5546	3644	0886	356	ACGH KPe	414	794
UNION GROVE	UNGVW111RSO	5863	3564	5220	356	ABDE FGHI KLMN Pehj o	414	878
VALDERS	VLDRWIXA775	5587	3684	0965	356	ABC	414	775
VAN DYNE	VNDNW111RSO	5667	3752	5220	350	ABDE FGHI KLMN Peh	414	688
VERONA	VRNAWIXACGO	5914	3809	0917	354	ABC	608	845
VESPER	VSPRWIXA569	5657	4016	0859	350	ABC	715	569
VIOLA	VIOLWIXA627	5894	4021	0966	354	A	608	627
VIROQUA	VIRQWIXA637	5900	4057	0967	354	ACjo	608	637
WABENO	WABNWIXARSO	5381	3931	0886	350	ACGH KP	715	473
WALWORTH	WLWOWIXA275	5934	3629	0886	356	ACGH KPe	414	275
WARRENS	WRNSWIXA378	5762	4057	0922	354	ACEF GHIK LMNO PUVe	608	378

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WASHBURN	WSBNWI11373	5294	4354	5220	352	ABCE FGHI KLMN Peh	715	373
WASHINGTON ISLAND	WAISWIXA847	5269	3690	0886	350	ACGH KPe	414	847
WATERFORD	WTFRWIXACGO	5862	3598	0952	356	ABC	414	534
WATERLOO	WTRLWIXA478	5838	3751	0886	356	ACGH KPe	414	478
WATERTOWN	WTTWWIO1DSO	5816	3713	5220	356	ABDE FGHI KLMN Phj1 o	414	261
WATERTOWN	WTTWWIO1DSO	5816	3713	5220	356	ABDE FGHI KLMN Pehj lo	414	262
WAUBEKA	WBKAWIXA692	5709	3639	0886	356	ACGH KPe	414	692
WAUKESHA	WKSHWI47CGO	5815	3625	5220	35	ABDE FGHI KLMN Phj1 o	414	521
WAUKESHA	WKSHWI47CGO	5815	3625	5220	356	ABDE FGHI KLMN Phj1 o	414	523
WAUKESHA	WAUKWI47CGO	5815	3625	5220	356	ABDE FGHI KLMN Phj1 o	414	524
WAUKESHA	WKSHWI47CGO	5815	3625	5220	356	ABDE FGHI KLMN Phj1 o	414	542

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LOCALITY	CLLI	WCV	WCH	CC	LATA	OT	NPA	NXX
WAUKESHA	WKSHWI47CGO	5815	3625	5220	356	ABDE FGHI KLMN Phj1 o	414	544
WAUKESHA	WKSHWI47CGO	5815	3625	5220	356	ABDE FGHI KLMN Phj1 o	414	547
WAUKESHA	WKSHWI47CGO	5815	3625	5220	356	ABDE FGHI KLMN Phj1 o	414	548
WAUKESHA	WKSHWI47CGO	5815	3625	5220	356	ABDE FGHI KLMN Phj1 o	414	549
WAUMANDÉE	WMNDWIXA626	5809	4243	0866	354	ABC	608	626
WAUNAKEE	WAUNWIXACGO	5869	3817	0968	354	ABC	608	849
WAUPACA	WPCAWillCGO	5619	3881	5220	350	ABDE FGHI KLMN Pehj no	715	258
WAUPUN	WAPNWillRSO	5733	3759	5220	356	ABDE FGHI KLMN Pehj o	414	324
WAUSAU	WAUSWIXCDSO	5536	4021	0886	350	ADGH KPeo	715	675
WAUSAU	WAUSWIXADSO	5541	4016	0886	350	ADGH KPbc dejo	715	842
WAUSAU	WAUSWIXADSO	5541	4016	0886	350	ADGH KPbc dejo	715	845

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WAUSAU	WAUSWIXADSO	5541	4016	0886	350	ADGH KPbc dejo	715	847
WAUSAU	WAUSWIXADSO	5541	4016	0886	350	ADGH KPbc dejo	715	848
WAUSAU	WAUSWIXADSO	5541	4016	0886	350	ACGH KPbc dej	715	994
WAUSAU (SCHOFIELD)	WAUSWIXBCGO	5550	4008	0886	350	ADGH KPeo	715	355
WAUSAU (SCHOFIELD)	WAUSWIXBCGO	5550	4008	0886	350	ADGH KPeo	715	359
WAUSAUKEE	WASKWIXA856	5343	3829	0841	350	ABChjo	715	856
WAUTOMA	WTMAWIXADSO	5688	3881	0886	350	ADGH KPjo	414	787
WAUZEKA	WZKAWIXARSO	5992	4011	0886	354	ACGH KP	608	875
WAYSIDE	WYSDWIXA864	5551	3723	0970	350	ABChjo	414	864
WEBB LAKE	WBLKWIXA259	5504	4460	0950	352	C	715	259
WEBSTER	WBSTWIXA866	5545	4483	0950	352	C	715	866
WEST BEND	WBNDWIO1CGO	5732	3659	5220	356	ABDE FGHI KLMN Phjl o	414	334
WEST BEND	WBNDWIO1CGO	5732	3659	5220	356	ABDE FGHI KLMN Phjl o	414	338
WEST DANBURY, MN	DNBRWIXA655	5520	4494	0950	352	C	612	655
WEST SALEM	WSLMWIXADSO	5847	4116	0895	354	C	608	786
WESTBY	WSBYWIXA634	5878	4062	0966	354	A	608	634
WESTFIELD	WSFDWIXARSO	5739	3891	0886	354	ACGH KPeo	608	296
WEYAUWEGA	WYWGWIXA867	5615	3857	0841	50	ABChjo	414	867
WEYERHAUSER	WYHRWIXA353	5570	4308	0936	352	ABCE FGH	715	353

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WHEATLAND	WTLDWIXA537	5892	3581	0856	356	ABC	414	537
WHEELER	WHLRWIXARSO	5679	4341	0886	352	ACGH KPe	715	632
WHITE LAKE	WHLKWIXARSO	5443	3919	0886	350	DGHK Peo	715	882
WHITEHALL	WHTHWIXARSO	5772	4195	0886	352	ACDG HKPe o	715	538
WHITELAW	WHLWWIXA732	5565	3678	0886	356	ACGH KPe	414	732
WHITEWATER	WHWRWILLRSO	5885	3678	5220	356	ABDE FGHI KLMN Pehj o	414	472
WHITEWATER	WHWRWILLRSO	5885	3678	5220	356	ABDE FGHI KLMN Pehj o	414	473
WILD ROSE	WLDRWIXADSO	5665	3886	0922	350	ABCE FGHI KLMN OPUV e	414	622
WILLIAMS BAY	WMBYWILLCGO	5921	3627	5220	356	ABCE FGHI KLMN Peh	414	245
WILTON	WLTOWIXA435	5824	4030	0913	354	CGHK Pe	608	435
WIND LAKE	WDLKWIXADSO	5849	3596	0952	356	ABC	414	895
WINNECONNE	WNCNWILLDSO	5639	3805	5220	350	ABDE FGHI KLMN Peho	414	582
WINTER	WNTRWIXARSO	5468	4290	0886	352	ACDG HKPb cdeo	715	266

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